



BRANDEIS UNIVERSITY
GRADUATE SCHOOL OF ARTS AND SCIENCES
CATALOGUE SUPPLEMENT
1973-1974

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INTRODUCTION

This Catalog Supplement for 1973-74 must be used in conjunction with the 1972-73 or 1973-74 Graduate School Catalogs (which are the same except for changes in the dates on the front cover).

All general degree requirements and specific requirements for the several graduate departments appear in the above Catalogs except for changes which are effective with the 1973-74 academic year. For these changes consult the secretary of the department in which you are registered since all changes may not appear in this Supplement.

Only courses which will be offered in 1973-74 are listed in the Supplement. In most cases, course descriptions are to be found in the 1972-73 or 1973-74 Catalogs. Where the 1972-73 or 1973-74 Catalogs show courses which are not listed in the 1973-74 Supplement, it means that those courses are either starred for 1973-74 or have been dropped.

Changes in policy precede the departmental listings in this Supplement. The page references are to pages in the 1972-73 Catalog where the changes are to be reflected.



**Brandeis University
Libraries**



**Brandeis University
National
Women's Committee**

Graduate School of Arts and Sciences

ACADEMIC CALENDAR 1973-1974

Fall Term

Wednesday and Thursday	September 5 and September 6	Returning students register. Fees are payable in full at this time. Students who register later will be fined \$10.
Friday	September 7	New students register. Fees are payable in full at this time. Students who register later will be fined \$10.
Monday	September 10	Opening days of instruction in courses. No section meetings in courses until announced.
Wednesday	*September 26	<u>University Thursday.</u> Final date for filing Study Cards. No program changes for Fall Term may be made after this date.
Thursday and Friday	September 27 and September 28	No University Exercises.
Monday	*October 1	<u>University Thursday.</u>
Thursday	October 11	No University Exercises.
Tuesday	*October 16	<u>University Thursday.</u>
Thursday	October 18	No University Exercises.
Thursday	November 22 and	No University Exercises.
Friday	November 23	
Monday	December 3	Last date for February degree candidates to submit final drafts of theses and dissertations to department chairmen, and to submit "Application for Degree" to Graduate School Office.
Monday	December 17 through	Final Examinations. Winter Recess begins after last examination.
Friday	December 21	
Friday	December 21	Final date for admission to candidacy for the Ph.D. degree for students expecting to earn the Ph.D. in June 1974. Final date for completion of language requirements for students expecting to earn the Ph.D. degree in June 1974.
Friday	January 4	Grades due for all Fall Term courses and Incompletes from Spring Term 1972-73. Final date for faculty certification that February Master's candidates have completed degree requirements and that Ph.D. candidates have defended dissertations.

* Classes scheduled for Thursdays meet on this date.

Graduate School of Arts and Sciences

Monday	January 14	Final date for deposit of Ph.D. dissertations at the Graduate School Office by February degree candidates.
Wednesday	January 16	Spring Term registration for students entering for the first time or those returning from leave. Students registering later will be fined \$10.
<u>Spring Term</u>		
Thursday Friday	January 17 and January 18	Opening days of instruction in courses.
Friday	February 1	Final date for filing Study Cards. No program changes for Spring Term may be made after this date. Final date for filing "Application for Financial Aid" for 1974-75.
Monday	February 18	No University Exercises.
Friday	March 1	Last date for May degree candidates to submit final drafts of theses and dissertations to department chairmen and to file "Application for Degree" with Graduate School Office.
Monday	April 1	Final date for Master's candidates to complete foreign language requirements for May degree. Final date for completion of language requirement for students expecting to earn the Ph.D. in February 1975.
Wednesday	April 3	Spring Recess begins after last class.
Monday	April 15	Classes resume.
Friday	April 19	Final date for faculty certification that May Ph.D. candidates have defended dissertations. Final date for May degree candidates to discharge all financial indebtedness to the University.
Wednesday	May 1	Final date for deposit of Ph.D. dissertations at Graduate School Office by May degree candidates.
Monday Friday	May 6 through May 10	Final Examinations.
Monday	May 13	Grades due for all May degree candidates by 10 a.m. Final date for admission to candidacy for the Ph.D. degree for students expecting to earn the Ph.D. in February 1975.
Friday	May 17	Grades due for all Spring Term and full year courses and Fall Term Incompletes.
Sunday	May 19	Commencement.

Graduate School of Arts and Sciences

Policy Changes for 1973-74.

The new academic year adopted for 1973-74 has necessitated changes in deadline dates. The major date changes are noted in the Academic Calendar. However, there are numerous minor changes which are not noted either in the Calendar or below. Please consult the Graduate School Office for the correct dates.

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Application Fee: \$20.00.

Tuition Fee: The fees for tuition in the Graduate School for 1973-74 are as follows:

Full-time resident students: \$3,100 per year, or \$1,550.00 per semester.
Part-time resident students:

<u>Per Semester</u>	<u>Per Year</u>	<u>Fraction Program of Study</u>
\$1,162.50	\$2,325.00	Three-quarters
\$ 775.00	\$1,550.00	One-half
\$ 387.50	\$ 775.00	One-quarter

Special Students: \$387.50 per course per semester.

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Scholarships

Full tuition scholarships in the value of \$3,100 and partial scholarships are available.

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Loan Funds

Students who plan to borrow through Brandeis or any other source which participates in the Federally Insured Loan Program must have on file at the Graduate School Office a current Graduate and Professional Student Financial Aid Service form (GAPSFAS). Forms may be obtained at the Graduate School Office or from the Educational Testing Service. No GILP loan can be processed until this form is received.

ANTHROPOLOGY

Faculty: Professor David Kaplan, Chairman; Professors Helen Codere, Robert A. Manners, Alex Weingrod; Associate Professors George L. Cowgill, Robert C. Hunt, Marguerite S. Robinson, Benson Saler; Assistant Professors Joan Bamberger, David A. Horr, Judith T. Irvine, David Jacobson, E. Craig Morris.

COURSES OF INSTRUCTION

ANTHROPOLOGY 100a.	Interdisciplinary Pro-Seminar in Latin American Studies	<u>Messrs. Hunt and Hindley</u>
See L.A. Studies 100a.		
ANTHROPOLOGY 102a.	Anthropological Linguistics I	<u>Ms. Irvine</u>
ANTHROPOLOGY 102b.	Anthropological Linguistics II	<u>Ms. Irvine</u>
ANTHROPOLOGY 103b.	Language, Society and Culture	<u>Ms. Irvine</u>
ANTHROPOLOGY 105aR.	Myth, Ritual and Symbol	<u>Ms. Bamberger</u>
Prerequisite: Permission of the instructor.		
ANTHROPOLOGY 109bR.	Archaeological Methods	<u>Mr. Morris</u>
ANTHROPOLOGY 110a.	Physical Anthropology	<u>Mr. Horr</u>
ANTHROPOLOGY 111a.	Primates	<u>Mr. Horr</u>
ANTHROPOLOGY 123a.	Archaeology and Prehistory	<u>Mr. Morris</u>
ANTHROPOLOGY 124a.	Civilization of Mesoamerica	<u>Mr. Cowgill</u>

The development of complex societies in Mexico and Guatemala; their history, social and political institutions, art, religion, and literature. Most emphasis will be on the Olmecs, Maya, the Teotihuacan civilization of central Mexico and the Aztecs.

ANTHROPOLOGY 125b.	Origins of East Asian Civilizations	<u>Mr. Cowgill</u>
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The archaeology and early history of China, Japan and Southeast Asia.

ANTHROPOLOGY 127a.	The First Complex Societies and Cities	<u>Mr. Cowgill</u>
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A comparative study of the origins and functioning of early urban societies and states. Social, political, economic, ideological, technological and ecological factors are emphasized. The aim is toward a better understanding of developmental processes. Somewhat different examples are chosen in different years; in 1973-74 the emphasis will be on Mesopotamia, China and Mesoamerica.

Prerequisite: Permission of the instructor.

ANTHROPOLOGY 144bR.	Social Anthropology of Contemporary South America	<u>Ms. Bamberger</u>
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Topics for study will include; family systems, race relations, class structure, urbanization, the role of religion in present-day South America.

ANTHROPOLOGY 145b.	The Development of Andean Civilization	<u>Mr. Morris</u>
ANTHROPOLOGY 151a.	Social Organization I	<u>Mr. Jacobson</u>
ANTHROPOLOGY 151b.	Social Organization II	<u>Mr. Saler</u>
ANTHROPOLOGY 152b.	Economic Anthropology	<u>Ms. Codere</u>
ANTHROPOLOGY 153a.	Primitive Art	<u>Ms. Codere</u>
ANTHROPOLOGY 154a.	Comparative Religion	<u>Mr. Saler</u>
ANTHROPOLOGY 154b.	Selected Topics in Comparative Religion	<u>Mr. Saler</u>

An exploration in depth of two or three topics; topics selected are likely to change from year to year. In 1973-74 the course will focus on shamanism, sorcery and witchcraft.

Prerequisite: Anthropology 154a or permission of the instructor.

ANTHROPOLOGY 155bR.	Psychological Anthropology	<u>Mr. Saler</u>
ANTHROPOLOGY 156a.	Political Anthropology	<u>Mr. Weingrod</u>

Survey of anthropological theories of government, politics, conflict and social control. Students will do field research in local political contexts.

ANTHROPOLOGY 156b.	Selected Topics in Political Anthropology	<u>Mr. Weingrod</u>
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Analysis of issues and problems in the anthropological study of politics. The seminar will focus this year on dilemmas in the organization of political power.

ANTHROPOLOGY 158aR.	Urban Anthropology	<u>Mr. Jacobson</u>
ANTHROPOLOGY 158b.	Selected Topics in Urban Anthropology	<u>Mr. Jacobson</u>

In 1973-74 the topic of the seminar will be: The Sub-Culture of Professions.

ANTHROPOLOGY 159aR.	Anthropology and Contemporary Issues	<u>Mr. Manners</u>
ANTHROPOLOGY 165a.	Modernization and Social Change	<u>Mr. Weingrod</u>

Exploration of selected problems and processes of modernization, with reference to both the "developed" and the "underdeveloped" states and the relationships between them. In 1973-74 the seminar will focus on problems of ethnicity in new and older states.

ANTHROPOLOGY 171a.	The Comparative Method	<u>Mr. Hunt</u>
ANTHROPOLOGY 172b.	Social Change in Israel	<u>Mr. Weingrod</u>
ANTHROPOLOGY 175a.	Pro-Seminar in Anthropological Theory I	<u>Ms. Codere</u>
ANTHROPOLOGY 175b.	Pro-Seminar in Anthropological Theory II	<u>Mr. Kaplan</u>
ANTHROPOLOGY 177b.	Archaeological Method and Theory	<u>Mr. Cowgill</u>
ANTHROPOLOGY 180b.	Historical Anthropology	<u>Ms. Codere</u>
ANTHROPOLOGY 190a.	Comparative Social Stratification	

This course will deal with the evolution of social stratification systems in primitive pre-industrial and industrial societies. Major theories of social stratification will be critically evaluated.

ANTHROPOLOGY 210b.	Special Topics in Anthropological Analysis	<u>Ms. Robinson</u>
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In 1973-74 the seminar will deal with land tenure, stratification, kinship and political structure in traditional India.

ANTHROPOLOGY 212b.	Behavioral Anthropology II	<u>Mr. Horr</u>
ANTHROPOLOGY 226a and b.	Readings in Research in Archaeology	<u>Mr. Cowgill</u>
ANTHROPOLOGY 227a and b.	Readings in Research in Linguistics	<u>Ms. Irvine</u>
ANTHROPOLOGY 228a and b.	Advanced Readings in Method and Theory	<u>Messrs. Kaplan and Manners</u>
ANTHROPOLOGY 229a and b.	Guided Comparative and Historical Research	<u>Ms. Codere and Mr. Hunt</u>
ANTHROPOLOGY 230a and b.	Readings and Research on Culture of Hunters and Gatherers	<u>Ms. Bamberger</u>
ANTHROPOLOGY 231a and b.	Readings in Cognitive Culture	<u>Mr. Saler</u>
ANTHROPOLOGY 235a and b.	Readings and Research in Latin American Cultures	<u>Mr. Hunt</u>
ANTHROPOLOGY 236a and b.	Readings and Research on East and South Asia	<u>Ms. Robinson</u>
ANTHROPOLOGY 237a and b.	Readings and Research in African Cultures	<u>Mr. Jacobson</u>

ANTHROPOLOGY 239a and b.	Readings and Research in North American Indian Cultures	<u>Mr. Manners</u>
ANTHROPOLOGY 240a and b.	Readings and Research in Cultures of the Mediterranean	<u>Mr. Weingrod</u>
ANTHROPOLOGY 245a and b.	Readings and Research in Physical Anthropology	<u>Mr. Horr</u>
ANTHROPOLOGY 300a.	Seminar in Anthropological Field Work	<u>Mr. Hunt</u>
ANTHROPOLOGY 302.	Summer Research Training	<u>Staff</u>
ANTHROPOLOGY 303bR.	Seminar in Intercultural Tensions	<u>Mr. Hunt</u>
ANTHROPOLOGY 304.	Research in Archaeological Field Methods	<u>Mr. Morris</u>
ANTHROPOLOGY 305.	Anthropological Colloquium	<u>Staff</u>
ANTHROPOLOGY 350a and b.	Anthropological Review	<u>Staff</u>
ANTHROPOLOGY 400-411.	Dissertation Research	
	400. <u>Ms. Codere</u>	406. <u>Mr. Manners</u>
	401. <u>Mr. Cowgill</u>	407. <u>Mr. Kaplan</u>
	402. <u>Mr. Jacobson</u>	408. <u>Ms. Robinson</u>
	403. <u>Mr. Hunt</u>	409. <u>Mr. Saler</u>
	404. <u>Mr. Horr</u>	410. <u>Mr. Weingrod</u>
	405. <u>Ms. Bamberger</u>	411. <u>Ms. Irvine</u>

BIOCHEMISTRY

Faculty: Professor Robert H. Abeles, Chairman; Professors Gerald D. Fasman, David M. Freifelder (on leave, 1973-74), Lawrence Grossman, William P. Jencks (on leave, 1973-74), Lawrence Levine, John M. Lowenstein, Alfred G. Redfield (Rosenstiel Center), Serge N. Timasheff, Helen Van Vunakis; Associate Professors Thomas C. Hollocher, Jr., Susan Lowey (Rosenstiel Center), William T. Murakami, Morris Soodak; Assistant Professors Jen-Shiang Hong, Dwight R. Robinson (Adjunct), Robert F. Schleif.

COURSES OF INSTRUCTION

BIOCHEMISTRY 100a.	Introductory Biochemistry	<u>Messrs. Hong and Grossman</u>
BIOCHEMISTRY 103a.	Molecular Biology	<u>Messrs. Grossman, Schleif and Murakami</u>
BIOCHEMISTRY 104b.	Introduction to Physical Biochemistry	<u>Messrs. Timasheff, Fasman and Ms. Lowey</u>

First year Biochemistry graduate students will take 101, 103a and 104b concurrently.

BIOCHEMISTRY 110a.	Protein Chemistry	<u>Mr. Fasman and Ms. Van Vunakis</u>
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An introduction to the basic concepts of protein structure. Biological, chemical and physical chemical methods for the determination of the primary, secondary and tertiary structure of proteins will be emphasized. The conformational dependence of the biological activity of proteins, e.g., enzymes, immunoglobulins, hormones, etc. will be outlined.

BIOCHEMISTRY 200.	Biochemical Techniques	<u>Mr. Levine</u>
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BIOCHEMISTRY 212b.	Neurochemistry	<u>Mr. Soodak</u>
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Seminars.

BIOCHEMISTRY 219b.	Biosynthesis of More or Less Complex Molecules	<u>Mr. Abeles</u>
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BIOCHEMISTRY 221b.	Metabolic Regulation	<u>Mr. Lowenstein</u>
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BIOCHEMISTRY 222a.	Oxidation-Reduction: Biochemical Processes with Geological Consequences	<u>Mr. Hollocher</u>
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A discussion of oxidation-reduction enzymes and biological processes with particular regard for the mutual interactions between biology and geochemistry. Included will be questions concerning the role of biological systems in the evolution of the earth's atmosphere and lithosphere, and concerning connections between primitive earth conditions and the origins of life. Student seminars and papers based on the seminars will be required.

Prerequisite: Chemistry 25a or b, Biochemistry 100a or the equivalent; permission of the instructor.

BIOCHEMISTRY 229a.	Muscle: Structure and Function	<u>Ms. Lowey</u>
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BIOCHEMISTRY 401-416.	Biochemical Research Problems	
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401. <u>Mr. Jencks</u>	409. <u>Ms. Lowey</u>
402. <u>Mr. Levine</u>	410. <u>Mr. Soodak</u>
403. <u>Mr. Redfield</u>	411. <u>Ms. Van Vunakis</u>
404. <u>Mr. Timasheff</u>	412. <u>Mr. Freifelder</u>
405. <u>Mr. Abeles</u>	413. <u>Mr. Hollocher</u>
406. <u>Mr. Fasman</u>	414. <u>Mr. Murakami</u>
407. <u>Mr. Lowenstein</u>	415. <u>Mr. Schleif</u>
408. <u>Mr. Grossman</u>	416. <u>Mr. Hong</u>

BIOLOGY

Faculty: Professor Jerome A. Schiff, Chairman; Professors Carolyn Cohen (Rosenstiel Center), Herman T. Epstein (on leave, 1973-74), Martin Gibbs, Harlyn O. Halvorson (Director, Rosenstiel Center), Albert Kelner, Andrew G. Szent-Gyorgyi; Associate Professors Chandler M. Fulton, Attila O. Klein, Gjerding Olsen, Raymond E. Stephens (on leave, Spring Term, 1973-74); Assistant Professors James E. Haber (Rosenstiel Center), Jeffrey C. Hall, Jonathan P. Kabat (Adjunct), Dan J. Stewart; Lecturer Marion Nestle.

COURSES OF INSTRUCTION

BIOLOGY 101b.	Comparative Physiology of Animals	<u>Mr. Olsen</u>
Prerequisite: Biology 31b and 41a and Chemistry 25a and b.		
Laboratory fee: \$20.		
BIOLOGY 102b.	Structural Biology	<u>Ms. Cohen and Mr. Caspar</u>
BIOLOGY 104b.	Mechanisms of Cell Development and Regulation	<u>Messrs. Fulton and Haber</u>
BIOLOGY 106a.	Developmental Plant Biology	<u>Mr. Klein</u>

The physiology and biochemistry of critical phases in the life cycle of multicellular plants. Included will be discussions of the origin and differentiation of specialized cells and organs as models of developmental regulation. The mechanisms by which environmental signals bring about developmental change will be examined. Lectures and discussion of original research papers.

Prerequisites: Biology 30a, Chemistry 25a and b.

Three classroom hours a week.

BIOLOGY 108a.	Vertebrate Endocrinology	<u>Mr. Olsen</u>
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A survey of the nature and modes of action of vertebrate hormones. The course will begin with a study of the direct effects of specific hormones and conclude with the analyses of the integrative and coordinative actions of the tropic hormones, the responding secretory glands and the reacting target tissues.

For the mandatory laboratory considerable manual dexterity is required. Each student will present the results of an independent research project near the conclusion of the course.

Prerequisites: Biology 10a and b, Chemistry 25a and b.

Laboratory fee: \$20.

BIOLOGY 245a.	Selected Topics in Plant Metabolism	<u>Mr. Gibbs</u>
BIOLOGY 245b.	Comparative Physiology and Biochemistry of Plants	<u>Mr. Schiff</u>
BIOLOGY 300a and b.	Biological Research	<u>Mr. Fulton</u>
BIOLOGY 400.	Biophysics of Microorganisms	<u>Mr. Epstein</u>
BIOLOGY 401.	Genetics and Microbiology	<u>Mr. Kelner</u>
BIOLOGY 402.	Developmental Genetics	<u>Mr. Halvorson</u>
BIOLOGY 403.	Microbial Genetics	<u>Staff</u>
BIOLOGY 404.	Vertebrate Physiology	<u>Mr. Olsen</u>
BIOLOGY 405.	Invertebrate Development	<u>Mr. Fulton</u>
BIOLOGY 406.	Plant Physiology	<u>Mr. Schiff</u>
BIOLOGY 407.	Structural Aspects of Contractile Systems, Cell Division and Blood Coagulation	<u>Ms. Cohen</u>

BIOLOGY 408.	Differentiation and Genetics	<u>Mr. Haber</u>
BIOLOGY 410.	Plant Development	<u>Mr. Klein</u>
BIOLOGY 411.	Cytology	<u>Mr. Stephens</u>
BIOLOGY 412.	Plant Metabolism	<u>Mr. Gibbs</u>
BIOLOGY 413.	General Physiology	<u>Mr. Szent-Gyorgyi</u>

BIOPHYSICS

Faculty Committee: Professor Henry Linschitz (Chemistry), Chairman; Professors Eugene P. Gross (Physics), Thomas C. Hollocher, Jr. (Biochemistry), Andrew G. Szent-Gyorgyi (Biology), Serge N. Timasheff (Biochemistry).

COURSES OF INSTRUCTION

BIOPHYSICS 300a and b.	Biophysical Techniques	<u>Staff</u>
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Consult advisor for courses offered in related departments.

CHEMISTRY

Faculty: Professor Paul B. Dorain, Chairman; Professors Saul G. Cohen (on leave, Spring Term, 1973-74), Sidney Golden, Ernest Grunwald, James B. Hendrickson, Kenneth Kustin, Henry Linschitz, Myron Rosenblum, Robert Stevenson; Associate Professors Michael J. Henchman (on leave, Spring Term, 1973-74), Peter C. Jordan, Colin Steel, Thomas R. Tuttle, Jr., Elie Hayon (Adjunct); Assistant Professors Iu-Yam Chan, Emily P. Dudek (Adjunct), Irving R. Epstein, Bruce M. Foxman, Philip M. Keehn, Ronald J. Parry.

DEGREE REQUIREMENTS

Qualifying Examinations. These examinations are set twice a year, in September and February and are based on the undergraduate Chemistry curriculum. Students are required to take and are expected to pass qualifying examinations in Organic, Inorganic-Analytical and Physical Chemistry during their first year.

Recommendations with respect to the first-year course of study will be based on the performance on the Qualifying Examinations. Admission to the graduate degree programs will be based on the student's record in course work during the first year and the performance on the qualifying examinations.

COURSES OF INSTRUCTION

CHEMISTRY 110b.	Analytical Chemistry	<u>Mr. Tuttle</u>
CHEMISTRY 121a.	Inorganic Chemistry I, Lectures	<u>Mr. Foxman</u>
CHEMISTRY 129a.	Inorganic Chemistry Laboratory	<u>Mr. Foxman</u>
CHEMISTRY 130a.	Advanced Organic Chemistry: Structure	<u>Mr. Rosenblum</u>

CHEMISTRY 131a.	Advanced Organic Chemistry: Topics in Structure and Reactivity	<u>Mr. Cohen</u>
CHEMISTRY 134b.	Advanced Organic Chemistry: Synthesis	<u>Mr. Hendrickson</u>
CHEMISTRY 141a and b.	Advanced Physical Chemistry I	<u>Mr. Golden, 1st term</u> <u>Mr. Kustin, 2nd term</u>
CHEMISTRY 142b.	Advanced Physical Chemistry II	<u>Mr. Epstein</u>
CHEMISTRY 143a.	Advanced Physical Chemistry II	<u>Mr. Jordan</u>
CHEMISTRY 144a.	Structure and Spectroscopy	<u>Mr. Chan</u>
BIOCHEMISTRY 100a.	Introductory Biochemistry	<u>Messrs. Hong and Grossi</u>
CHEMISTRY 200.	Advanced Chemistry Laboratory	<u>Staff</u>
CHEMISTRY 220c.	Inorganic Chemistry Seminar	<u>Mr. Kustin, 1st term</u> <u>Mr. Dorain, 2nd term</u>
CHEMISTRY 222b.	Advanced Inorganic Chemistry II	<u>Mr. Dorain</u>
CHEMISTRY 231c.	Organic Chemistry Seminar	<u>Messrs. Hendrickson,</u> <u>Rosenblum and Stevenson</u>
CHEMISTRY 237bR.	The Chemistry of Natural Products	<u>Mr. Stevenson</u>
CHEMISTRY 240c.	Physical-Organic Chemistry Seminar	<u>Mr. Cohen, 1st term</u> <u>Mr. Grunwald, 2nd term</u>
CHEMISTRY 241c.	Physical Chemistry Seminar	<u>Mr. Henschman, 1st term</u> <u>Mr. Tuttle, 2nd term</u>
CHEMISTRY 244a.	Special Topics in Physical Chemistry: Physical Aspects of Photochemical and Photobiological Reactions	<u>Mr. Linschitz</u>

A lecture-seminar course on the spectroscopic and kinetic basis of photo-chemistry, with emphasis on processes in condensed phase. Applications will be made to selected type-reactions in photo-organic chemistry and photobiology.

CHEMISTRY 245aR.	Physical Organic Chemistry	<u>Mr. Grunwald</u>
CHEMISTRY 250c.	Chemical Physics Seminar	<u>Mr. Golden</u>
CHEMISTRY COLLOQUIUM		

Lectures by faculty and invited speakers. Required of all graduate students. Non-credit.

CHEMISTRY 400.	Organic Chemistry and Physical Organic Chemistry	<u>Mr. Cohen</u>
CHEMISTRY 401.	Organic Chemistry	<u>Mr. Stevenson</u>

CHEMISTRY 403.	Organic Chemistry	<u>Mr. Rosenblum</u>
CHEMISTRY 404.	Organic Chemistry	<u>Mr. Hendrickson</u>
CHEMISTRY 405.	Physical Chemistry	<u>Mr. Golden</u>
CHEMISTRY 406.	Physical Chemistry	<u>Mr. Linschitz</u>
CHEMISTRY 407.	Physical and Inorganic Chemistry	<u>Mr. Dorain</u>
CHEMISTRY 408.	Physical Chemistry	<u>Mr. Tuttle</u>

Faraday effect of small ions in solution. The study of chemical equilibria and processes by means of magnetic resonance spectroscopy. Optical spectra of metal solutions in polar solvents.

CHEMISTRY 409.	Inorganic Chemistry	<u>Mr. Kustin</u>
CHEMISTRY 411.	Physical Chemistry	<u>Mr. Steel</u>
CHEMISTRY 412.	Physical and Physical Organic Chemistry	<u>Mr. Grunwald</u>
CHEMISTRY 413.	Physical Chemistry	<u>Mr. Jordan</u>

Theory of cooperative phenomena; theory of non-equilibrium processes; properties of ferrofluids; analysis of molecular spectra.

CHEMISTRY 414.	Physical Chemistry	<u>Mr. Henschman</u>
CHEMISTRY 415.	Physical Chemistry	<u>Mr. Epstein</u>
CHEMISTRY 416.	Physical Chemistry	<u>Mr. Chan</u>
CHEMISTRY 417.	Organic Chemistry	<u>Mr. Keehn</u>
CHEMISTRY 418.	Organic Chemistry	<u>Mr. Parry</u>
CHEMISTRY 419.	Inorganic Chemistry	<u>Mr. Foxman</u>

COMPARATIVE HISTORY

Faculty: Professor Rudolph Binion, Chairman; Professors Geoffrey Barraclough, David S. Berkowitz, Eugene C. Black, David H. Fischer, Charles K. Warner (Visiting); Associate Professors John P. Demos (on leave, 1973-74), Angeliki E. Laiou, John E. Schrecker, Milton I. Vanger; Assistant Professors Gregory L. Freeze, Gerald N. Izenberg, Gerald L. Soliday (on leave, 1973-74); Instructor Paul Monaco.

Seminars

COMPARATIVE HISTORY 201a.	Introduction to Comparative History	<u>Staff</u>
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COMPARATIVE HISTORY 209b.	Revolution and Rebellion in the 14th Century (Pro-Seminar)	<u>Mr. Binion, Ms. Laiou, and Staff</u>
COMPARATIVE HISTORY 301-312a and b.	Research Papers	
	301. <u>Mr. Barraclough</u>	306. <u>Mr. Fischer</u>
	302. <u>Mr. Berkowitz</u>	307. <u>Mr. Freeze</u>
	303. <u>Mr. Binion</u>	308. <u>Mr. Izenberg</u>
	304. <u>Mr. Black</u>	309. <u>Ms. Laiou</u>
	305. <u>Mr. Demos</u>	310. <u>Mr. Schrecker</u>
		312. <u>Mr. Vanger</u>
COMPARATIVE HISTORY 321-332a and b.	Period Field Reading	
	321. <u>Mr. Barraclough</u>	327. <u>Mr. Freeze</u>
	322. <u>Mr. Berkowitz</u>	328. <u>Mr. Izenberg</u>
	323. <u>Mr. Binion</u>	329. <u>Ms. Laiou</u>
	324. <u>Mr. Black</u>	330. <u>Mr. Schrecker</u>
	325. <u>Mr. Demos</u>	332. <u>Mr. Vanger</u>
	326. <u>Mr. Fischer</u>	
COMPARATIVE HISTORY 341-352a and b.	Category Field	
	341. <u>Mr. Barraclough</u>	347. <u>Mr. Freeze</u>
	342. <u>Mr. Berkowitz</u>	348. <u>Mr. Izenberg</u>
	343. <u>Mr. Binion</u>	349. <u>Ms. Laiou</u>
	344. <u>Mr. Black</u>	350. <u>Mr. Schrecker</u>
	345. <u>Mr. Demos</u>	352. <u>Mr. Vanger</u>
	346. <u>Mr. Fischer</u>	
COMPARATIVE HISTORY 401-412.	Dissertation Research	
	401. <u>Mr. Barraclough</u>	407. <u>Mr. Freeze</u>
	402. <u>Mr. Berkowitz</u>	408. <u>Mr. Izenberg</u>
	403. <u>Mr. Binion</u>	409. <u>Ms. Laiou</u>
	404. <u>Mr. Black</u>	410. <u>Mr. Schrecker</u>
	405. <u>Mr. Demos</u>	411. <u>Mr. Soliday</u>
	406. <u>Mr. Fischer</u>	412. <u>Mr. Vanger</u>
COMPARATIVE HISTORY 500.	Registration in Time	
In addition, the following courses may be taken as equivalent to Comparative History seminars.		
HISTORY 121a.	The Crusades	<u>Ms. Laiou</u>
HISTORY 125b.	The Tudor Revolution	<u>Mr. Berkowitz</u>
HISTORY 129a.	Against the Traditional Basis of Order: Marsilio of Padua, Machiavelli and Hobbes	<u>Mr. Berkowitz</u>
Proseminar.		

HISTORY 129b.	Divine Right Kingship	<u>Mr. Berkowitz</u>
Pro-seminar.		
HISTORY 134a.	The Ancien Regime 1643-1789	<u>Mr. Warner</u>
Pro-seminar.		
HISTORY 138bR.	Modern Europe: A Biographical Approach	<u>Mr. Binion</u>
Pro-seminar.		
HISTORY 141a.	European Intellectual History, 1789-1890	<u>Mr. Izenberg</u>
HISTORY 141b.	The Spanish Civil War	<u>Mr. Vanger</u>
Pro-seminar.		
HISTORY 144aR.	Studies in British History- 1851 to the Present	<u>Mr. Black</u>
HISTORY 146b.	Topics in German History- Hitler, Germany and Europe	<u>Mr. Binion</u>
HISTORY 147b.	Popular Culture in Modern Europe	<u>Mr. Monaco</u>
HISTORY 148bR.	Revolutionary Russia 1890-1917	<u>Mr. Freeze</u>
Pro-seminar.		
HISTORY 149b.	The Golden Age of Russian Culture, 1830-1880	<u>Mr. Freeze</u>
HISTORY 161b.	The United States and Great Britain: Comparative Perspectives, 1830-1930	<u>Messrs. Black and Keller</u>
HISTORY 167a.	History and Psychology	<u>Mr. Binion</u>
Pro-seminar.		
HISTORY 180a.	Modern China	<u>Mr. Schrecker</u>
Pro-seminar.		
HISTORY 190b.	Historiography	<u>Mr. Fischer</u>
Pro-seminar.		
HISTORY 195b.	Imperialism	<u>Mr. Barraclough</u>

CONTEMPORARY JEWISH STUDIES

Faculty: Associate Professor Leon A. Jick, Director (on leave, 1973-74); Assistant Professor Bernard Reisman, Associate Director; Professors Naftali C. Brandwein, Leonard J. Fein, Arnold Gurin, Benjamin Halpern (on leave, Spring Term, 1973-74), Nahum M. Sarna, Marshall Sklare; Assistant Professors Emanuel S. Goldsmith, Saul P. Wachs; Instructor Marden D. Paru, Admissions Officer; Lecturers Robert Abramson (Adjunct), Mildred Guberman (Heller School), Joshua Rothenberg.

COURSES OF INSTRUCTION

CJS 21.	Introductory Yiddish	<u>Mr. Rothenberg</u>
See Yiddish 1 for description.		
CJS 24.	Intermediate Yiddish	<u>Mr. Goldsmith</u>
See Yiddish 2 for description.		
CJS 25.	Readings in Yiddish Literature	<u>Mr. Goldsmith</u>
See Yiddish 10 for description.		
HEBREW 1.	Introductory Hebrew	<u>Ms. Neustein and Mr. Noy</u>
HEBREW 2.	Intermediate Hebrew	<u>Messrs. Segal and Noy</u>
HEBREW 10.	Introduction to Hebrew Literature	<u>Ms. Goldberg and Mr. Noy</u>
CJS 146bR.	Politics and Political Institutions in the Near East	Mr. Halpern
See NEJS 146bR for description.		
CJS 160a.	The American Jewish Experience 1654-1885	<u>Mr. Jick</u>
CJS 160b.	The Emergence of the American Jewish Pattern-1880 to the Present	<u>Mr. Jick</u>
CJS 161a.	American Jewish Life and Institutions	<u>Mr. Sklare</u>
See NEJS 161a for description.		
CJS 163a.	The Sociology of the American Jew	<u>Mr. Sklare</u>
See NEJS 163a for description.		
CJS 164b.	The Sociology of the American Jewish Community	<u>Mr. Sklare</u>
See NEJS 164b for description.		
CJS 166b.	Jewish Modern Intellectual History Since 1870	<u>Mr. Szajkowski</u>
See NEJS 166b for description.		

CJS 168b.	History of the Jews in the Soviet Union	<u>Mr. Rothenberg</u>
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See NEJS 168b for description.

CJS 169b	Social Change in Israel	<u>Mr. Weingrod</u>
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See Anthropology 172b for description.

CJS 171bR.	Trends and Values in Yiddish Literature	<u>Mr. Goldsmith</u>
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See NEJS 171bR for description.

CJS 173aR.	Seminar in Yiddish Literature: American Yiddish Poetry	<u>Mr. Goldsmith</u>
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See NEJS 173aR for description.

CJS 204a.	Theory and Practice of Jewish Education	<u>Mr. Wachs</u>
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An examination of several theories of Jewish education in terms of their views of the warrant, instruments, actors and structures of Jewish education. The course also includes a survey of the current Jewish educational scene with emphasis upon those trends, problems and institutions that are important for the practice of Jewish education.

CJS 204b.	The Curriculum of the Jewish School	<u>Mr. Wachs</u>
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An examination of issues related to curriculum development for the Jewish school. In addition, instructional strategies are examined where they relate to the process of curriculum development.

CJS 205a and b.	Theory and Practice of Jewish Communal Service	<u>Mr. Reisman and</u> <u>Ms. Guberman</u>
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An examination of theory and principles of professional practice in Jewish social welfare agencies. A coordinated approach utilizing observations and experiences based on student field visits to Boston area agencies plus theoretical material.

CJS 206b.	Individual and Small Group Dynamics in Jewish Communal Service	<u>Mr. Reisman</u>
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An experiential approach to the principles of individual and small group dynamics as these apply to professional role performance in informal education and group leadership in Jewish educational and social welfare organizations.

CJS 207a.	Issues in Jewish Public Policy	<u>Mr. Fein</u>
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CJS 207b.	Society and Politics in Israel	<u>Mr. Fein</u>
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An introduction to Israel's political and social systems, an exploration of the relationships between them, and an examination of critical problem areas, such as intergroup relations, religion and politics, etc.

CJS 208a.	Teaching Liturgy Through Inquiry and Discovery	Mr. Wachs
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This course establishes a methodological approach for the teaching of Jewish liturgy through the processes of inquiry. Model units are developed to serve as examples of the processes. Specific pedagogical techniques are exemplified in the proto-typical lesson plans developed by the instructor and the students. An attempt is made to show how material presented can be related meaningfully to the needs of Jewish education. Opportunity will be provided for students to practice the methodology and to receive feedback from the instructor.

CJS 208b.	A Methodological Approach to the Teaching of Biblical Texts	<u>Messrs. Fishbane and Wachs</u>
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An interdisciplinary effort involving the study of selections from the book of Genesis together with the mastery of an appropriate methodology for teaching the book in elementary and secondary schools.

CJS 235a and b.	Readings in Jewish Education	<u>Mr. Wachs</u>
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CJS 249a.	Topics in the History of Palestine and Israel	<u>Mr. Halpern</u>
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See NEJS 249a for description.

CJS 250.	Field Methods in Jewish Education and Communal Service	<u>Messrs. Reisman, Wachs, Abramson and Paru</u>
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CJS 282b.	The American Jew: The Sociological Literature	<u>Mr. Sklare</u>
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See NEJS 282b for description.

ENGLISH AND AMERICAN LITERATURE

Faculty: Professor Aileen Ward, Chairman; Professors J.V. Cunningham (on leave, Spring Term, 1973-74), Victor Harris (on leave, Spring Term, 1973-74), Milton Hindus, Benjamin B. Hoover, Galway Kinnell (Visiting), Robert O. Preyer (on leave, 1973-74), Philip Rahv (on leave, 1973-74), John H. Smith, John Williams (Visiting); Associate Professors Allen R. Grossman, Ray S. Jackendoff, Alan L. Levitan, Richard J. Onorato (on leave, Spring Term, 1973-74), Peter Swiggart; Assistant Professors Arthur Edelstein, Philip Fisher, Karen W. Klein (on leave, Spring Term, 1973-74), Alan Lelchuk (on leave, Spring Term, 1973-74), Joan M. Maling, John D. Niles, S. Susan Staves.

COURSES OF INSTRUCTION

ENGLISH 121a.	Old English	<u>Ms. Klein</u>
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ENGLISH 123a.	Age of Chaucer	<u>Ms. Klein</u>
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Medieval allegory, romance, drama, and lyric poetry. Most time will be spent on Sir Gawain and the Green Knight; other readings will include Pearl, the Chaucerian version of the first part of Le Roman de la Rose, parts of Piers Plowman, the Second Shepherd's Play, and Sir Orfeo. Previous knowledge of Middle English recommended but not absolutely required.

ENGLISH 123b.	Chaucer	<u>Mr. Niles</u>
ENGLISH 125aR.	Renaissance Poetry	<u>Mr. Levitan</u>
ENGLISH 142a.	Elizabethan and Jacobean Drama	<u>Mr. Levitan</u>
ENGLISH 144a.	Topics in Poetry and Religion: Christianity	<u>Mr. Grossman</u>

The subject of this course is the Christian Bible (Genesis to Revelation) with emphasis on the Gospels. Special attention will be given to the total structure of the Biblical narration, to Evangelical Typology, and to the Christological aspects of Christian Theology. Augustine, Dante, Imitatio Christi, and Bunyan will be read as ancillary texts.

ENGLISH 165b.	Restoration Drama	<u>Ms. Staves</u>
ENGLISH 171b.	Romantic Poetry	<u>Ms. Ward</u>
ENGLISH 174a.	American Fiction at the Turn of Century	<u>Mr. Edelstein</u>

The turn of the century (roughly 1890-1910) was a transformative moment in American letters. The powerful thrust supplied by our mid-century literature (Whitman, Thoreau, Melville, Emerson, Hawthorne) had by then exhausted itself, along with the cultural optimism that was one of its motivations. Exhaustion itself became a significant literary theme of the closing years of the century, coinciding with the development of realism, naturalism and novelized social criticism. In documentary form, the themes can be seen in the writings of Henry Adams, Jacob Riis, Thorstein Veblen, Henry George, Jane Addams and others.

ENGLISH 181b.	The Experiment Called Modernism	<u>Mr. Fisher</u>
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A technical and thematic study of the self-consciously "modern" movement in English and American writing of the early 20th century. The works of Joyce and Eliot are the central texts but the course will include other writers and will study in particular the creation of the phenomenon of "Modernism."

ENGLISH 185bR.	Joyce	<u>Mr. Hindus</u>
ENGLISH 189b.	Inquiry into Literary Assumptions	<u>Messrs. Smith and Edelstein</u>

In no sense a historical treatment of critical theories, the course will explore various fundamental assumptions about literature: e.g., its purposes and ends. For further information see the English Department secretary or the professors.

Enrollment limited to 20 students.

Open to seniors and graduate students concentrating in literary study. Others must secure permission of the instructors.

ENGLISH 191a.	Introduction to Linguistics	<u>Mr. Jackendoff</u>
ENGLISH 191b.	Introduction to Linguistic Structure	<u>Ms. Maling</u>
ENGLISH 192a.	History of the English Language	<u>Ms. Maling</u>

ENGLISH 193a.	Problems of Phonology	<u>Ms. Maling</u>
ENGLISH 196a.	Semantics and Linguistics	<u>Mr. Jackendoff</u>
ENGLISH 197b.	Problems of Syntax	<u>Ms. Maling</u>

This course extends the syntactic framework developed in the introductory courses through the study of such problems as complement system, Chomsky's base rule schema, and the structure-preserving hypothesis. Attention will be given to syntactic universals.

Prerequisite: English 191a or 191b.

Graduate Seminars

ENGLISH 200a.	The English Seminar	Mr. Hoover
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Required of all first-year graduate students. Non-credit.

ENGLISH 201a.	The History and Theory of Criticism: Plato to Dr. Johnson	<u>Mr. Swiggart</u>
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See Literary Studies 201a for description.

ENGLISH 201b.	History and Theory of Criticism: Neoclassicism, Romanticism, Modernism	<u>Mr. Engelberg</u>
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See Literary Studies 201b for description.

ENGLISH 203a.	Psychoanalysis and Literary Criticism	<u>Mr. Onorato</u>
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ENGLISH 215b.	Shakespeare	<u>Mr. Smith</u>
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ENGLISH 217a.	Elizabethan and Renaissance Drama	<u>Mr. Levitan</u>
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This course excludes Shakespeare.

ENGLISH 219a.	Sixteenth and Seventeenth Century Fiction	<u>Mr. Harris</u>
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ENGLISH 226a.	The Eighteenth Century	<u>Ms. Staves</u>
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ENGLISH 230b.	Romantic Poetry	<u>Ms. Ward</u>
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ENGLISH 236b.	The Victorian Novel	<u>Mr. Fischer</u>
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ENGLISH 295b.	Major Text	<u>Staff</u>
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Required of all first-year graduate students.

ENGLISH 350-370a and b.	Directed Research	
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350. <u>Mr. Grossman</u>	355. <u>Mr. Hoover</u>	362. <u>Mr. Levitan</u>	367. <u>Mr. Jackendoff</u>
351. <u>Mr. Edelstein</u>	356. <u>Mr. Onorato</u>	363. <u>Ms. Klein</u>	368. <u>Mr. Lechuk</u>
352. <u>Mr. Cunningham</u>	359. <u>Mr. Smith</u>	364. <u>Ms. Staves</u>	369. <u>Mr. Engelberg</u>
353. <u>Mr. Harris</u>	360. <u>Mr. Swiggart</u>	365. <u>Mr. Fisher</u>	370. <u>Mr. Niles</u>
354. <u>Mr. Hindus</u>	361. <u>Ms. Ward</u>	366. <u>Ms. Maling</u>	

ENGLISH 400-419a and b. Dissertation Research

400. <u>Mr. Cunningham</u>	405. <u>Mr. Onorato</u>	410. <u>Ms. Ward</u>	415. <u>Mr. Jackendoff</u>
401. <u>Mr. Grossman</u>	406. <u>Mr. Preyer</u>	411. <u>Mr. Levitan</u>	416. <u>Ms. Staves</u>
402. <u>Mr. Harris</u>	407. <u>Mr. Rahv</u>	412. <u>Mr. Edelstein</u>	417. <u>Mr. Fisher</u>
403. <u>Mr. Hindus</u>	408. <u>Mr. Smith</u>	413. <u>Ms. Klein</u>	418. <u>Ms. Maling</u>
404. <u>Mr. Hoover</u>	409. <u>Mr. Swiggart</u>	414. <u>Mr. Niles</u>	419. <u>Mr. Lelchuk</u>

HISTORY OF AMERICAN CIVILIZATION

Faculty: Executive Committee. Professors Eugene C. Black, David Hackett Fischer, Morton Keller; Associate Professors Gerald S. Bernstein, John P. Demos; Assistant Professor James R. Green.

Staff. Professors Eugene C. Black, David Hackett Fischer, Morton Keller, Marvin Meyers (on leave, Spring Term, 1973-74); Associate Professors John P. Demos (on leave, 1973-74), Gerald S. Bernstein; Assistant Professor James R. Green.

COURSES OF INSTRUCTION

HISTORY 151b. The New Republic Mr. Fischer

An intensive study of the political history of the United States, 1790-1820.

HISTORY 154a. A History of the American City Mr. Green
to 1900

An historical analysis of American urban communities from Colonial time to the present. Reading and discussions will be especially concerned with how the economy and ecology of cities affected the social and political behavior. There will be an emphasis on primary sources that will allow the students to discover something about the people of the city and their problems.

HISTORY 154b. The American City Since 1900 Mr. Kopf

The character of 20th century urban and suburban life in America will be explored. Special attention will be paid to the social and cultural responses of city dwellers to urban growth.

HISTORY 155b. The History of an Urban Community: Mr. Green
A Century of Change in Boston's
South End

Pro-Seminar

A seminar investigating the history of one of America's most rapidly changing urban neighborhoods, Boston's South End. There will be an emphasis on primary sources concerning the community's political, social and economic problems. Professor Bernstein of the Fine Arts Department will provide documentary sources on architecture in the area.

Prerequisite: History 154a.

Limited enrollment.

HISTORY 161b. The United States and Great Messrs. Black and Keller
 Britain: Comparative Perspectives,
 1830-1930

A comparative examination of the impact of industrialization, and its political, social and cultural accomplishments, in the United States and Great Britain during the nineteenth and early twentieth centuries.

HISTORY 164bR. The Politics of Modern America Mr. Keller

An examination of the modern American polity--party politics, the legal system, the structure of government--as a social institution. Special attention will be paid to the social and cultural determinants of party politics, and to the relationship of public policy to economic development.

HISTORY 167a. History and Psychology Mr. Binion

Proseminar.

An exploration of certain basic themes and problems in "interdisciplinary" studies between the fields of history and psychology. Discussion will span a range of topics: biography, and the social psychology of mass movements, national character, etc. Some prior acquaintance with both fields will be helpful.

To be run as a conference course. Enrollment limited to twelve students.

HISTORY 168a. American Foreign Policy Mr. Art

See Politics 168a for description.

HISTORY 168b. American Foreign Policy Mr. Art

See Politics 168b for description.

HISTORY 169aR. The History of American Radicalism Mr. Green
 in the 20th Century

An analysis of the major radical movements in the 20th century (socialism, syndicalism, feminism, agrarian radicalism, communism, pacifism, black nationalism and student radicalism) with an emphasis on primary sources. The most important question will be: Why has American radicalism failed to make fundamental changes in the 20th century U.S.?

HISTORY 190b. Historiography Mr. Fischer

A critical analysis of classical historiography, from Gibbon to the present.

HISTORY 200a. An Introduction to Themes and Staff of History of American
 Problems Civilization, Comparative
 History and History of Ideas
 Programs

Proseminar.

HISTORY 200b. An Introduction to Themes and Staff
 Problems of American Historiography

Proseminar.

HISTORY 201aA-210aA.	Directed Research in American History	201aA.	<u>Mr. Bernstein</u>
		204aA.	<u>Mr. Fischer</u>
		205aA.	<u>Mr. Keller</u>
		207aA.	<u>Mr. Meyers</u>
		210aA.	<u>Mr. Green</u>
HISTORY 301-310.	Readings in the History of American Civilization	301a or b.	<u>Mr. Bernstein</u>
		302a or b.	<u>Mr. Black</u>
		304a or b.	<u>Mr. Fischer</u>
		305a or b.	<u>Mr. Keller</u>
		307a or b.	<u>Mr. Meyers</u>
		309a or b.	<u>Mr. Roche</u>
		310a or b.	<u>Mr. Green</u>
HISTORY 401-410.	Dissertation Research	401.	<u>Mr. Bernstein</u>
		403.	<u>Mr. Demos</u>
		404.	<u>Mr. Fischer</u>
		405.	<u>Mr. Keller</u>
		407.	<u>Mr. Meyers</u>
		409.	<u>Mr. Roche</u>
		410.	<u>Mr. Green</u>

HISTORY OF IDEAS

Faculty: Executive Committee. Professors William A. Johnson, George A. Kelly; Assistant Professor Gerald N. Izenberg.

Staff Committee. Professors Alexander Altmann, Rudolph Binion, Egon Bittner, Peter Diamandopoulos, Jack S. Goldstein, William A. Johnson, George A. Kelly, Silvan S. Schweber, Kurt H. Wolff (on leave, Fall Term, 1973-74); Assistant Professor Gerald N. Izenberg.

COURSES OF INSTRUCTION

HISTORY OF IDEAS 200c.	Introduction to the History of Ideas	Messrs. Binion, Bittner,
		<u>Izenberg, Johnson, Kelly and Schweber</u>

Required of all first-year students.

HISTORY OF IDEAS 109a.	Science in the Second Half of the Nineteenth Century	<u>Mr. Schweber</u>
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See Physics 137a for description.

HISTORY OF IDEAS 125a.	Major Figures of the Christian Tradition	<u>Mr. Johnson</u>
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An investigation of several of the most significant thinkers of the Christian faith tradition including St. Paul, Augustine, Thomas, Luther, Edwards, Schleiermacher and others. Special attention will be given to primary source materials.

HISTORY OF IDEAS 126a. Philosophy of Religion

Mr. Johnson

An introduction to the kinds of intellectual problems with which the religiously committed must deal: the problem of God, the problem of suffering, life after death, free-will, the relation of religion to morality, etc.

HISTORY OF IDEAS 130a. Humanism

Mr. Berkowitz

See History 124a for description.

HISTORY OF IDEAS 130b. The Tudor Revolution

Mr. Berkowitz

See History 125b for description.

HISTORY OF IDEAS 141a. European Intellectual History,
1789-1890

Mr. Izenberg

See History 141a for description.

HISTORY OF IDEAS 145b. Modern Religious Thought

Mr. Johnson

An analysis of several important twentieth century theological developments including major thinkers of the Protestant, Roman Catholic and Jewish religious tradition.

HISTORY OF IDEAS 162b. Jewish Aristotelianism and Its
Opponents

Mr. Altmann

See NEJS 135b for description.

HISTORY OF IDEAS 179b. The Origins and Development of
Freudian Theory

Mr. Izenberg

See History 137b for description.

HISTORY OF IDEAS 186a. Rejecting the Traditional Basis of
Order: Marsilio of Padua, Machiavelli
and Hobbs

Mr. Berkowitz

Proseminar.

HISTORY OF IDEAS 186b. Divine Right Kingship

Mr. Berkowitz

See History 129b for description.

HISTORY OF IDEAS 201a. Introduction to Comparative
History

Staff

See Comparative History 201a for description.

HISTORY OF IDEAS 203b. Seminar in Existentialism

Mr. Diamandopoulos

See Philosophy 203b for description.

HISTORY OF IDEAS 205b. History and Theory of Criticism:
Neoclassicism, Romanticism,
Modernism

Mr. Engelberg

See Literary Studies 201b for description.

HISTORY OF IDEAS 210b. Crosscurrents in the French and English Enlightenment

Mr. Gendzier

See Literary Studies 205b for description.

HISTORY OF IDEAS 283a. Classical Sociological Theory

Mr. Boime

See Sociology 200a for description.

HISTORY OF IDEAS 286b. Seminar: Kant, Hegel, Marx

Mr. Kelly

See Politics 255b for description.

HISTORY OF IDEAS 301-310a Readings in History of Ideas and b.

Staff

HISTORY OF IDEAS 400-408. Dissertation Research

400. Mr. Aiken

405. Mr. Diamandopoulos

401. Mr. Altmann

406. Mr. Halpern

402. Mr. Berkowitz

407. Mr. Izenberg

403. Mr. Binion

408. Mr. Johnson

404. Mr. Black

JOINT PROGRAM OF LITERARY STUDIES

Classics, Comparative Literature, French, German, Russian and Spanish

Faculty Committee: Professor Edward Engelberg, Chairman; Professors Denah L. Lida (on leave, Fall Term, 1973-74), Murray Sachs (on leave, Spring Term, 1973-74), David S. Wiesen (on leave, Spring Term, 1973-74), Harry Zohn; Associate Professor Robert Szulkin.

DEGREE REQUIREMENTS

Changes in Requirements: Doctor of Philosophy

Program of Study. Individual programs of study will be arranged between students and their advisers. The Core Curriculum consists of several elements. All students in the program are obligated to enroll in Literary Studies 201a and 201b (The History and Theory of Criticism from Aristotle to the Moderns) and in Literary Studies 200a (Methods of Research). All students in the program will be held responsible for certain works on Literary Theory, Literary History, Aesthetics (not studied in the Criticism seminars) at the time of General Examination.

Residence Requirement. The minimum residence requirement is two years of full-time study beyond the bachelor's degree.

Language Requirements. Students will be asked to demonstrate a reading competence in at least two foreign languages to be determined in consultation with their advisers. In certain areas of specialization, additional languages (e.g. Latin) may become necessary research tools. (Comparative Literature students should consult the special statement on Language Requirements below.) Students must be certified in at least one language by the end of the first year in residence.

Qualifying Examination. During the spring term of the student's first year in residence, each candidate will take a Qualifying Examination to demonstrate an ability to analyze literary texts. In consultation with the student's faculty adviser, the candidate will select two texts in a field of interest, one prose and one verse. Students will prepare a written analysis of one text, and present an analysis of the other text orally to a committee of three faculty members. Candidates for the degree in Comparative Literature will select comparative texts either for the oral or the written part of the examination.

General Examination. Students may take the General Examination whenever they and their advisers feel they can appropriately do so. However, students normally should plan to complete the General Examination no later than the end of the third year in residence. Examinations will be offered twice a year (January and May). They will be written and oral. All students in the program will be held responsible for certain material (see Core Curriculum). Each Area and the student's specialty will determine the remainder of the examination. Further details (subject to annual changes) will be available; such details include the titles of books and the nature of the coverage for which a particular Area will hold the student responsible. The General Examination will consist, in the oral portion, of a directed emphasis on the student's special field. Students will propose this part of the Examination in consultation with their advisers.

Teaching. All students in the program are expected to do some supervised teaching, either as Teaching Assistants or by means of other arrangements. In some Areas, where teaching assistantships may at times be unavailable, students will be expected to fulfill some teaching opportunities (occasional class lectures, for example) without remuneration.

FOR CANDIDATES IN COMPARATIVE LITERATURE

1. Any student in the program who declares his candidacy in Comparative Literature should decide, as soon as possible, on a major and minor literature. The major literature may not be English or American. Exact "proportions" cannot be stated in advance and will be worked out in consultation between students and advisers and the Area Chairperson.

2. Candidates in Comparative Literature are expected to take three language examinations as follows:

- (a) the major language, which should be near level of mastery (reading, writing, and speaking) on acceptance to the program. Students may simply be "certified" for this language if their level of competence is obvious.
- (b) the second foreign language should be mastered as a reading language with a fluency that will permit easy access to all primary and secondary literature in the specified area.
- (c) the third foreign language should be a reading tool for primary and especially secondary materials.

It is quite possible that for certain areas of specialization--Medieval, Renaissance, etc.--additional languages will become necessary (e.g., Latin, Catalan, Old French).

COURSES OF INSTRUCTION

Following is a list of selected courses in each of the areas which constitute the Joint Program of Literary Studies which may be of special interest to graduate students. For a full list of all courses available consult the undergraduate catalog under Departments of Classics, Germanic-Slavic Languages, and Romance Languages and Comparative Literature.

Classics

GREEK 118a.	The Republic of Plato	<u>Mr. Stewart</u>
LATIN 150a.	Latin Literature of the Early Middle Ages	<u>Mr. Wiesen</u>
GREEK 186b.	Greek Cosmological Thought	<u>Mr. Stewart</u>

Comparative Literature

COMPARATIVE LITERATURE 145b.	Towards Modernism	<u>Mr. Engelberg</u>
COMPARATIVE LITERATURE 187b.	Love in the Middle Ages	<u>Mr. Lansing</u>
COMPARATIVE LITERATURE 192a.	The Faust Theme	<u>Mr. Stavenhagen</u>

French

FRENCH 112a.	The French Middle Ages	<u>Mr. Bohn</u>
FRENCH 118b.	The French Enlightenment	<u>Mr. Gendzier</u>
FRENCH 135aR.	The Great Age of French Drama	<u>Mr. Cloonan</u>
FRENCH 170b.	The Moralistic Tradition in French Literature	<u>Mr. Pollack</u>
FRENCH 190b.	Major Authors Seminar: Moliere	<u>Mr. Cloonan</u>

German

GERMAN 100aR.	German Literature up to 1700	<u>Mr. Stavenhagen</u>
GERMAN 140a.	German Literature in the Nineteenth Century	<u>Mr. Zohn</u>
GERMAN 170b.	German Literature Since the "Year Zero" (1945)	<u>Mr. Frey</u>

Italian

ITALIAN 140a.	Dante's <u>Divina Commedia</u>	<u>Mr. Lansing</u>
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Russian

RUSSIAN 138a.	Nineteenth Century Prose	<u>Mr. Dalton</u>
RUSSIAN 139a.	Nineteenth Century Poetry	<u>Mr. Szulkin</u>

Spanish

SPANISH 125a.	The Seventeenth Century	<u>Ms. Collard</u>
SPANISH 140a.	Spanish Lyric Poetry	<u>Mr. Yglesias</u>

COURSES OF INSTRUCTION - GRADUATE LEVEL

LITERARY STUDIES 200a.	Methods of Research	<u>Mr. Duffy and Staff</u>
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This course serves as an introduction to techniques in literary research. It will involve reading and discussion of literary theories. There will also be intensive work in the techniques of scholarly writing and the methods of research necessary for literary scholars with emphasis on the various areas of specialization, e.g., Russian, French, etc.

LITERARY STUDIES 201a.	History and Theory of Criticism: From Plato to Dr. Johnson	<u>Mr. Swiggart</u>
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LITERARY STUDIES 201b.	History and Theory of Criticism: The Development of Modern Critical Theories	<u>Mr. Engelberg</u>
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LITERARY STUDIES 203a.	Romantic Phenomena	<u>Mr. Engelberg</u>
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LITERARY STUDIES 204b.	The Theory and Practice of Literary Translation	<u>Mr. Zohn and Staff</u>
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This course, team-taught, will concern itself with literary translation as an art. Due attention will be given to theoretical writings on translation, and the Brandeis University guest lecturers in the course, most of them associated with the Joint Program in Literary Studies, will undoubtedly present a great variety of views. The practical side of the course will focus on critiques of existing translations and the preparation of new translations. Teachers and students will learn from one another as they attempt to apply the precepts and principles of literary translation in specific translation projects.

LITERARY STUDIES 205b.	Crosscurrents in the French and English Enlightenment	<u>Mr. Gendzier</u>
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Eighteenth century literature on human nature by such writers as Diderot, Fielding, Hume, Laclos, Locke, Richardson, Rousseau, Sade, Sterne, Swift and Voltaire. The course will focus on the issue of whether or not people are malleable, can be educated to control or influence their passions, sensibilities, sexuality, and state of happiness, in particular, how the concepts of human nature helped to mold the art of characterization in the rise of the novel.

LITERARY STUDIES 206a.	The Comic in Literature: Theory and Practice	<u>Mr. Sachs</u>
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A study of the traditions of comic writing in Western literatures, especially in the theatre and in fiction. An effort will be made to examine representative types of comic writing, in order to study the techniques of comic creation, and to distinguish as clearly as possible among farce, burlesque, low comedy, high comedy, humor, satire, irony, parody. Some attention will also be given to important and influential theories of laughter and of the comic, both ancient and modern.

LITERARY STUDIES 207b.	Origins of the Anti-Intellectualist Tradition in the French Renaissance	<u>Ms. Harth</u>
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LITERARY STUDIES 300-305. Readings in Area Studies: Tutorials

300a and b.	Classics	<u>Mr. Wiesen and Staff</u>
301a and b.	Comparative Literature	<u>Mr. Engelberg and Staff</u>
302a and b.	French	<u>Mr. Sachs and Staff</u>
303a and b.	German	<u>Mr. Zohn and Staff</u>
304a and b.	Russian	<u>Mr. Szulkin and Staff</u>
305a and b.	Spanish	<u>Ms. Lida and Staff</u>

LITERARY STUDIES 350-355. Directed Research

350a and b.	Classics	<u>Mr. Wiesen and Staff</u>
351a and b.	Comparative Literature	<u>Mr. Engelberg and Staff</u>
352a and b.	French	<u>Mr. Sachs and Staff</u>
353a and b.	German	<u>Mr. Zohn and Staff</u>
354a and b.	Russian	<u>Mr. Szulkin and Staff</u>
355a and b.	Spanish	<u>Ms. Lida and Staff</u>

LITERARY STUDIES 400. Dissertation Research Staff

MATHEMATICS

Faculty: Professor Harold I. Levine, Chairman; Professors Maurice Auslander (on leave, 1973-74), Edgar H. Brown, Jr. (on leave, 1973-74), David A. Buchsbaum, Jerome P. Levine, Teruhisa Matsusaka, Alan L. Mayer (on leave, 1973-74), Paul H. Monsky, Richard S. Palais, Hugo Rossi (Graduate Student Adviser), Robert T. Seeley (on leave, 1973-74); Associate Professor David I. Lieberman (on leave, Fall Term, 1973-74); Assistant Professors James A. Carlson (Visiting), David Eisenbud, Arnold K. Pizer (Visiting), Stavros G. Papastavridis, Mehrdad M. Shahshahani; Instructors Daniel R. Farkas, Arthur L. Goldhammer, Leslie C. Wilson, Bun Wong; Lecturer Timothy L. Lance.

COURSES OF INSTRUCTION

MATHEMATICS 101a and b.	Algebra I	<u>Mr. Buchsbaum</u>
MATHEMATICS 111a and b.	Analysis I	<u>Mr. Rossi</u>
MATHEMATICS 121a and b.	Topology I	<u>Mr. Lance</u>
MATHEMATICS 140a and b.	Real Analysis	<u>Mr. Palais</u>
MATHEMATICS 142a.	Algebraic Geometry	<u>Mr. Buchsbaum</u>

Introduction to algebraic geometry.

MATHEMATICS 150b.	Introduction to the Mathematics of Information Sciences	<u>Mr. Palais</u>
MATHEMATICS 199a and b.	Readings in Mathematics	<u>Staff</u>

MATHEMATICS 201a and b.	Algebra II	<u>Mr. Farkas, 1st term</u> <u>Mr. Pizer, 2nd term</u>
MATHEMATICS 211a and b.	Analysis II	<u>Mr. Palais, 1st term</u> <u>Mr. Lieberman, 2nd term</u>
MATHEMATICS 221a and b.	Topology II	<u>Mr. J. Levine</u>
MATHEMATICS 291.	Algebra Seminar	<u>Staff</u>
MATHEMATICS 292.	Analysis Seminar	<u>Staff</u>
MATHEMATICS 293.	Topology Seminar	<u>Staff</u>
MATHEMATICS 299a and b.	Readings in Mathematics	<u>Staff</u>
MATHEMATICS 303.	Algebraic Number Theory	<u>Mr. Monsky</u>
MATHEMATICS 311a and b.	Analysis III	<u>Mr. Rossi, 1st term</u> <u>Mr. Wilson, 2nd term</u>
MATHEMATICS 312a and b.	Several Complex Variables	<u>Mr. Carlson</u>
MATHEMATICS 324.	Lie Groups	<u>Mr. Shahshahani</u>
MATHEMATICS 334a.	Differential Geometry	<u>Mr. Wong</u>
MATHEMATICS 399a and b.	Readings in Mathematics	<u>Staff</u>
MATHEMATICS 401-414	Research	
	401. <u>Mr. Auslander</u>	408. <u>Mr. Palais</u>
	402. <u>Mr. Brown</u>	409. <u>Mr. Rossi</u>
	403. <u>Mr. Buchsbaum</u>	410. <u>Mr. Seeley</u>
	404. <u>Mr. H. Levine</u>	411. <u>Mr. Mayer</u>
	405. <u>Mr. J. Levine</u>	412. <u>Mr. Lieberman</u>
	406. <u>Mr. Matsusaka</u>	413. <u>Mr. Papastavridis</u>
	407. <u>Mr. Monsky</u>	414. <u>Mr. Shahshahani</u>

MEDITERRANEAN STUDIES

Faculty: Professor Louis V. Zabkar, Chairman; Professor Ernest R. Lacheman;
Assistant Professor Ian A. Todd; Lecturer Gordon D. Newby.

MEDITERRANEAN STUDIES 101.	History of the Ancient Near East	<u>Staff</u>
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This course is designed to provide students with a wide background in the political and cultural history of the Ancient Near East. Each year a well-defined historical period will be discussed. Both the archaeological as well as documentary material which has been steadily accumulating, especially in recent years, will be evaluated.

In 1973-74: Middle Bronze Age

MEDITERRANEAN STUDIES 112. Archaeology of the East Mediterranean Mr. Todd

MEDITERRANEAN STUDIES 115a. Archaeology of Anatolia Mr. Todd

From the aceramic neolithic through the Early Bronze Age. An examination of archaeological sites and their relationship to sites in other areas of the East Mediterranean.

MEDITERRANEAN STUDIES 125. Introduction to Classical Arabic Texts Mr. Newby

MEDITERRANEAN STUDIES 136. Elementary Hittite Mr. Lacheman

MEDITERRANEAN STUDIES 140. Elementary Egyptian Mr. Zabkar

MEDITERRANEAN STUDIES 170a. History of Early Islamic Civilizations Mr. Newby

This course will offer the history of Arabia from the pre-Islamic period to the end of the Umayyad Caliphate, ca. 750 A.D. Special attention will be devoted to Islam as a religion, the figure of Muhammad, and problems of the developing culture during the patriarchal and Umayyad Caliphates.

Readings will be primarily in English, French and German, although there is no language prerequisite for the course.

MEDITERRANEAN STUDIES 171b. History of Medieval Islamic Civilization Mr. Newby

This course will cover the period from the beginning of the Abbasid Caliphate to the fall of Constantinople. Special attention will be devoted to the Classical heritage in Islam, the Crusades, and Muslim Spain and Italy.

MEDITERRANEAN STUDIES 217. Seminar on Archaeological Techniques Mr. Todd

MEDITERRANEAN STUDIES 225. Advanced Arabic: The Qur'an and Its Commentaries Mr. Newby

MEDITERRANEAN STUDIES 234. Advanced Akkadian Mr. Lacheman

Codes of law.

MEDITERRANEAN STUDIES 235. Elementary Sumerian Mr. Lacheman

MEDITERRANEAN STUDIES 242. Advanced Egyptian Mr. Zabkar

Late Egyptian and Demotic texts.

MEDITERRANEAN STUDIES 401-404 Dissertation Research
401. Mr. Zabkar
402. Mr. Lacheman
403. Mr. Newby
404. Mr. Todd

MUSIC

Faculty: Professor Robert L. Koff, Chairman; Professors Arthur Berger (on leave, 1973-74), Paul R. Evans (Visiting, 2nd Term), Harold S. Shapero, Seymour J. Shifrin, Leo Treitler (on leave, 1973-74); Associate Professors Martin Boykan, Paul H. Brainard, Caldwell Titcomb; Assistant Professors Louis S. Bagger, Edward Cohen, Joshua Rifkin (on leave, 1973-74), David Rosen; Lecturers D. John Boros, James Olesen, Alexander Silbiger; Consultants Maynard Goldman, Fred Goldstein.

DEGREE REQUIREMENTS

Changes in Requirements: Master of Fine Arts

Language Requirement. Candidates for the Master's degree in Musical Composition must possess a reading knowledge of one foreign language from either Group A or Group B. (See p. 130 of the Catalog for language groups.)

Examinations. Candidates for admission will receive a short examination testing basic skills in theory and analysis. The results of this examination will aid in selecting first-year candidates.

Early in March of their first year of study, graduate students will be expected to take an examination in the standard literature of music from the early eighteenth century to the present. In cases of failure, examinations may be repeated.

Before the end of their second year of study, candidates for the degree of Master of Fine Arts must pass with distinction written general examinations in theory and history, one of which will be their major field, the other their minor field.

COURSES OF INSTRUCTION

MUSIC 171a.	Music and Drama Criticism	<u>Mr. Titcomb</u>
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This seminar will deal with the various approaches, theoretical and practical, to the challenging task of writing about the two most important of the performing arts. The journalism of representative critics, past and present, will be discussed; the students will gain practical experience through the regular writing of play or concert reviews at the newspaper and superior-magazine level.

Prerequisite: Familiarity with music or theatre.

MUSIC 180b.	Ethnomusicology	<u>Mr. Titcomb</u>
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MUSIC 197aR.	Tutorial in Music History and Literature	<u>Mr. Boros</u>
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MUSIC COLLOQUIUM		<u>Staff and Visiting Lecturers</u>
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Required of all graduate students. Non-credit.

MUSIC 200.	Proseminar in Musicology	<u>Mr. Brainard</u>
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MUSIC 221.	Seminar in the Music of the Middle Ages	<u>Mr. Brainard, Fall Term</u> <u>Mr. Evans, Spring Term</u>
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MUSIC 224.	Seminar in Pre-Classical and Classical Music	<u>Mr. Rosen</u>
MUSIC 227.	Proseminar in Theory and Composition	<u>Mr. Shapiro, Fall Term</u> <u>Mr. Cohen, Spring Term</u>
MUSIC 233.	Topics in Analysis	<u>Mr. Shifrin</u>
MUSIC 292.	Seminar in Composition	292-1 <u>Mr. Boykan</u> 292-2 <u>Mr. Shapero</u>
MUSIC 295b.	Electronic Music	<u>Mr. Shapero</u>
MUSIC 299a and b.	Individual Research and Advanced Work	<u>Staff</u>
MUSIC 400-410.	Dissertation Research	
	400. <u>Mr. Berger</u>	406. <u>Mr. Treitler</u>
	401. <u>Mr. Boykan</u>	407. <u>Mr. Bagger</u>
	402. <u>Mr. Brainard</u>	408. <u>Mr. Cohen</u>
	403. <u>Mr. Shapero</u>	409. <u>Mr. Rifkin</u>
	404. <u>Mr. Shifrin</u>	410. <u>Mr. Rosen</u>
	405. <u>Mr. Titcomb</u>	

NEAR EASTERN AND JUDAIC STUDIES

Faculty: Professor Nahum M. Sarna, Chairman; Professors Alexander Altmann, Naftali C. Brandwein, Nahum N. Glatzer (Emeritus), Benjamin Halpern (on leave, Spring Term, 1973-74), Marshall Sklare, Dwight W. Young (on leave, Spring Term, 1973-74); Associate Professor Leon A. Jick (on leave, 1973-74); Assistant Professors Robert M. Dankoff, Michael Fishbane, Ariella D. Goldberg, Emanuel S. Goldsmith, Benjamin C.I. Ravid, Bernard Reisman, Saul P. Wachs; Instructor David Segal; Lecturers Joshua Rothenberg, Zosa Szajkowski.

COURSES OF INSTRUCTION

NEJS 101.	Basic Arabic	<u>Mr. Dankoff</u>
NEJS 102.	Intermediate Arabic	<u>Mr. Dankoff</u>
NEJS 103a.	Introduction to Islamic Civilization and Institutions	<u>Mr. Dankoff</u>

The rise of Islam seen against the geographical, political and religious background of the Near East in the 7th century. Subsequent political and intellectual movements until the Mongol conquest in the 13th century. Development of legal and governing institutions, social structure, economic organization and religious life.

NEJS 103b.	Introduction to Islamic Civilization and Institutions	<u>Mr. Dankoff</u>
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Political and social history of the Near East from the Mongol conquest until the beginning of European penetration. The organization of city life, the rise of guilds and Sufi orders, and concomitant developments in the arts. Ottoman institutions and their decline in the 18th century.

NEJS 104a.	The History of Early Arabic Culture	<u>Mr. Newby</u>
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See Mediterranean Studies 170a for description.

NEJS 104b.	The History of Medieval Arabic Culture	<u>Mr. Newby</u>
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See Mediterranean Studies 171b for description.

NEJS 105b.	Biblical Hebrew	<u>Mr. Fishbane</u>
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A detailed investigation into the phonology, morphology, grammar and syntax of biblical Hebrew. Gesenius' grammar will be examined and supplemented.

NEJS 106a.	Elementary Ugaritic: Grammar and Syntax	<u>Mr. Young</u>
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NEJS 106b.	Elementary Ugaritic: Literary Texts	<u>Mr. Sarna</u>
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NEJS 107.	History of the Ancient Near East	<u>Staff</u>
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See Mediterranean Studies 101 for description.

NEJS 109a.	The Patriarchal Narratives in the Light of Near Eastern Documents	<u>Mr. Young</u>
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NEJS 116.	Biblical Prophecy: The Book of Jeremiah	<u>Mr. Fishbane</u>
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Selected readings (in Hebrew). An intensive examination of textual and exegetical problems; the historical background in the light of archaeological finds; the personality and life of Jeremiah; the phenomenon of biblical prophecy, and the leading ideas and concepts of the book.

Students must enroll for the full year with the approval of the instructor.

NEJS 121a.	The Dead Sea Scrolls: The Manual of Discipline; Peshar Literature	<u>Mr. Fishbane</u>
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An intensive examination of the exegetical literature from Qumran, with special attention to its structure, origin and historical content.

NEJS 134b.	Moses Mendelssohn and the Early Haskala	<u>Mr. Altmann</u>
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NEJS 135a.	The Categories of the Spiritual Life in Jewish Neoplatonism	<u>Mr. Altmann</u>
NEJS 135b.	Jewish Aristotelianism and Its Opponents	<u>Mr. Altmann</u>
NEJS 136a.	Spinoza's <u>Ethics</u>	<u>Mr. Altmann</u>
NEJS 137b.	Hebrew Literature: Selected Readings in Medieval Hebrew Literature	<u>Mr. Segal</u>

The Golden Age of Hebrew letters in Spain from its inception through Shlomo ibn Gabirol. His work and that of Shmuel Hanagid will be stressed. Prerequisite: Permission of the instructor.

NEJS 138.	Man and Society in Israel	<u>Mr. Brandwein</u>
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A study in contemporary Hebrew prose and poetry. The chief prose writers will include S. Yizhar, M. Shamir, A. Appelfeld and A. B. Yehoshua. The poetry will be based on the works of N. Alterman, Y. Ratosh, C. H. Guri, Y. Amihai and A. Gilboa.

NEJS 140.	The Jews in Europe to 1700	<u>Mr. Ravid</u>
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This course will examine the phenomenon of Jewish survival in the European diaspora. Attention will be paid to the Jewish religious tradition, the structure of the Jewish community, the position of the Jew in European society, the attitude of the church and the state towards the Jew, and the role of the Jew in the economy. Special emphasis will be placed on major centers of Jewish settlement.

One hour a week will be devoted to an analysis of texts in English translation.

NEJS 146bR.	Politics and Political Institutions in the Near East	<u>Mr. Halpern</u>
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Egypt and the Fertile Crescent since World War I.

NEJS 161a.	American Jewish Life and Institutions	<u>Mr. Sklare</u>
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A survey of the contemporary community and the diverse forms of Jewish identification which characterize American Jewish life. Reform, Conservative, and Orthodox Judaism; problems of Jewish family life including intermarriage; problems of relationship to the general society and to other ethnic groups.

NEJS 163a.	The Sociology of the American Jew	<u>Mr. Sklare</u>
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The individual, the in-group, and the majority society; minority group personality development; the Jewish family; patterns of self-segregation, acculturation, and assimilation; religion in American society and in the life of the individual Jew. Primarily for graduate students.

NEJS 166aR.	Jewish Modern Intellectual History to 1870	<u>Mr. Szaikowski</u>
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NEJS 166b. Jewish Modern Intellectual History Since 1870 Mr. Szajkowski

NEJS 168b. History of the Jews in the Soviet Union Mr. Rothenberg

A study of the history of the Jews in the Soviet Union since 1917, of their legal and political status. Historical background; Soviet political structure nationality policies. Jews as an ethnic and religious group in the context of the Soviet state structure; socio-economic, demographic, cultural aspects; oriental Jewish groups; experiment of Birobidzhan; relationship to Zionism and Israel.

NEJS 171bR. Trends and Values in Yiddish Literature Mr. Goldsmith

NEJS 173aR. Seminar in Yiddish Literature: American Yiddish Poetry Mr. Goldsmith

NEJS 224. Advanced Arabic Mr. Newby

See Mediterranean Studies 225 for description.

NEJS 225a. North-West Semitic Inscriptions Mr. Sarna

A seminar in Hebrew, Moabite, Phoenician and early Aramaic inscriptions. Texts will be read in their original script. Special emphasis will be placed on linguistic, literary, religious and historical features.

NEJS 240. The Hassid and Hassidism in Modern Hebrew Literature Mr. Brandwein

A comparative study of the Hassidic short story; the image of the Hassid, his ideals, and aspirations by means of a literary analysis of the themes, motifs, and structure of this genre in modern Hebrew literature.

NEJS 249a. Topics in the History of Palestine and Israel Mr. Halpern

The origins and history of the state of Israel as an issue of international politics.

NEJS 260. The Jewish Merchants in the Mediterranean World, 1500-1700 Mr. Ravid

This seminar will examine the phenomenon of the Jewish merchant in Mediterranean commerce in early modern Europe, with emphasis on the process whereby commercial considerations came to outweigh religious hostility.

NEJS 282b. Problems in the Sociology of the American Jew Mr. Sklare

A seminar. Permission of the instructor.

NEJS 320-331a and b. Readings Courses

320. Readings in Medieval Jewish History	<u>Mr. Ravid</u>
321. Readings in the History of Jewish Philosophy	<u>Mr. Altmann</u>
322. Readings in Medieval Jewish Philosophy	<u>Mr. Altmann</u>
323. Readings in Kabbalah	<u>Mr. Altmann</u>
324. Readings in Modern Hebrew Literature	<u>Mr. Brandwein</u>
325. Readings in Biblical Texts	<u>Messrs. Sarna and Fishbane</u>
326. Readings in Islamic Civilization	<u>Mr. Dankoff</u>
327. Readings in Ancient Near Eastern Civilization	<u>Mr. Young</u>
328. Readings in Syriac Literature	<u>Mr. Young</u>
329. Readings in Modern Near East and Modern Jewish History	<u>Mr. Halpern</u>
330. Readings in the Sociology of the Jewish Community	<u>Mr. Sklare</u>
331. Readings in Yiddish Literature	<u>Mr. Goldsmith</u>

NEJS 400-407. Dissertation Colloquium	400. <u>Mr. Altmann</u>
	401. <u>Mr. Brandwein</u>
	404. <u>Mr. Halpern</u>
	405. <u>Mr. Sarna</u>
	406. <u>Mr. Sklare</u>
	407. <u>Mr. Young</u>

PHILOSOPHY

Faculty: Professors Henry D. Aiken, Peter Diamandopoulos, Frederic T. Sommers, John van Heijenoort (on leave, Spring Term, 1973-74), Morris Weitz (on leave, 1973-74); Associate Professor Robert S. Greenberg; Assistant Professor Richard M. Burian; Lecturer Igal Kvart.

COURSES OF INSTRUCTION

PHILOSOPHY 105a. Plato	<u>Mr. Diamandopoulos</u>
PHILOSOPHY 106a. Categories of Spiritual Life in Jewish Neoplatonism	<u>Mr. Altmann</u>

See NEJS 135a for description.

PHILOSOPHY 109a. Spinoza's <u>Ethics</u>	<u>Mr. Altmann</u>
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See NEJS 136a for description.

PHILOSOPHY 115a. <u>Intermediate Logic</u>	<u>Mr. van Heijenoort</u>
PHILOSOPHY 117bR. Ethical Theory in the Twentieth Century	<u>Mr. Aiken</u>
PHILOSOPHY 119a. Theory of Knowledge	<u>Mr. Burian</u>
PHILOSOPHY 133bR. Contemporary Analytic Philosophy	<u>Mr. Greenberg</u>
PHILOSOPHY 134a. Continental Existentialists	<u>Mr. Aiken</u>

PHILOSOPHY 158a.	Metaphysics	<u>Mr. Burian</u>
PHILOSOPHY 203b.	Seminar in Existentialism	<u>Mr. Diamandopoulos</u>
PHILOSOPHY 215bR.	Advanced Topics in Logic	<u>Mr. van Heijenoort</u>
PHILOSOPHY 235a.	<u>Seminar on Truth</u>	<u>Mr. Sommers</u>
PHILOSOPHY 300-305a and b.	Readings in Philosophy	300. <u>Mr. Aiken</u>
		301. <u>Mr. Burian</u>
		302. <u>Mr. Diamandopoulos</u>
		303. <u>Mr. Greenberg</u>
		304. <u>Mr. Sommers</u>
PHILOSOPHY 400-406.	Dissertation Research	400. <u>Mr. Aiken</u>
		401. <u>Mr. Burian</u>
		402. <u>Mr. Diamandopoulos</u>
		403. <u>Mr. Greenberg</u>
		404. <u>Mr. Sommers</u>
		405. <u>Mr. van Heijenoort</u>
		406. <u>Mr. Weitz</u>

PHYSICS

Faculty: Professor Stephan Berko, Chairman; Professors Donald L.D. Caspar, (Rosenstiel Center), Stanley Deser, Jack S. Goldstein, Eugene P. Gross, Edgar Lipworth, Alfred G. Redfield (Rosenstiel Center), Howard J. Schnitzer, Silvan S. Schweber; Associate Professors Max Chretien, David J. DeRosier (Rosenstiel Center), Marcus T. Grisaru, Peter Heller, Lawrence E. Kirsch, Robert V. Lange, Hugh N. Pendleton III; Assistant Professors Jacques Cohen, William S. Gornall, Allen P. Mills, Alan T. Ramsey (Visiting), Peter E. Schmidt, Lawrence M. Schwartz, Robert F. Stein (on leave, 1973-74), John F.C. Wardle, Hermann F. Wellenstein; Instructor Karl F. Canter.

DEGREE REQUIREMENTS

Changes in Requirements: Doctor of Philosophy.

Qualifying Examination. In the first year both Quantum Mechanics (Physics 102) and Electromagnetic Theory (Physics 101) must be taken by all students unless they are exempted. All students whether exempted or not must take the final examinations in these courses (both the fall and spring semesters), which also serve as the qualifying examination in these courses. Mechanics will be covered in the qualifying examination although the course itself is not required. An oral examination on general physics, given at the end of the first year, completes the qualification requirements.

Specialized courses also will form part of the qualifying examination. At least two graduate courses, with final examinations in the specialized courses listed below, must be taken during the first three semesters: (1) Statistical Mechanics, (2) Atomic and Nuclear Physics, (3) Solid State Physics, (4) Biophysics, (5) Elementary Particles, (6) Astrophysics, (7) Experimental Physics (Physics 109), (8) General Relativity. Note, however, that not all of the above courses will necessarily be given each year.

One semester of Advanced Quantum Mechanics (Physics 202a) will be a required course for all students.

Advanced Examinations. Advanced examinations will be in topics partitioned in the several areas of research interests of faculty. Faculty members working in each general area will function as a committee for this purpose and will provide information about their work through informal discussions and seminars. The advanced examination requirement consists of a written paper and an oral examination. While no original research by the student is expected, it is hoped that a proposal for a possible thesis topic will emerge. It is generally expected that the candidate will take the advanced examination in the field he wishes to pursue for his Ph.D. thesis, although there may be exceptions.

Thesis Research. After passing the advanced examination, the student begins work with an advisor who guides his research program. The advisor should be a member of the Brandeis faculty but in special circumstances may be a physicist associated with another research institution. The graduate committee of the physics faculty will appoint a dissertation committee to supervise the student's research. The student's dissertation advisor will be the chairman of the dissertation committee. The committee will recommend the student for admission to candidacy for the doctorate on recommendation of his advisor.

COURSES OF INSTRUCTION

PHYSICS 100b.	Theoretical Mechanics	<u>Mr. Schweber</u>
PHYSICS 101a and b.	Electromagnetic Theory	<u>Mr. Schnitzer</u>
PHYSICS 102a and b.	Quantum Mechanics	<u>Mr. Mills</u>
PHYSICS 103a.	Statistical Mechanics	<u>Mr. Heller</u>
PHYSICS 103b.	Atomic and Nuclear Structure	<u>Mr. Schmidt</u>
PHYSICS 104a.	Solid State Physics	<u>Mr. Schwartz</u>
PHYSICS 109a.	Advanced Laboratory	<u>Mr. Berko</u>
PHYSICS 109b.	Advanced Laboratory	<u>Staff</u>
PHYSICS 110a.	Mathematical Physics	<u>Staff</u>
PHYSICS 128a.	Electronics for Scientists	<u>Staff</u>
PHYSICS 129bR.	Computers in Research	<u>Staff</u>

See Computer Science 129bR.

PHYSICS 137a.	Science in the Second Half of the 19th Century	<u>Mr. Schweber</u>
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The course will investigate how various disciplines in the second half of the 19th century developed the conceptual framework for the description of "complex" systems. Particular emphasis will be paid to the evolution of probabilistic descriptions (e.g., the development of kinetic theory and statistical mechanics in physics, the theory of evolution in biology). The historical setting for these developments will be outlined and an attempt will be made to trace the interaction and flow of ideas between the various disciplines.

PHYSICS 152b.	Structural Biology	<u>Mr. Caspar</u>
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See Biology 102b for description.

PHYSICS 200b.	General Relativity	<u>Mr. Deser</u>
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PHYSICS 201b.	Physics of Many Particle Systems	<u>Mr. Schwartz</u>
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PHYSICS 202a.	Advanced Quantum Mechanics	<u>Mr. Grisaru</u>
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PHYSICS 202b.	Advanced Quantum Mechanics	<u>Staff</u>
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PHYSICS 209a and b.	Laboratory Seminar	<u>Staff</u>
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PHYSICS 211b.	High Energy Physics	<u>Mr. Schmidt</u>
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PHYSICS 213a.	Tutorial in Physics	<u>Staff</u>
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PHYSICS 218a and b.	High Energy Astrophysics	<u>Mr. Wardle</u>
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Research Courses

PHYSICS 401.	Experimental Atomic and Molecular Physics	<u>Mr. Lipworth</u>
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PHYSICS 403.	Theoretical Atomic and Molecular Physics	<u>Mr. Pendleton</u>
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PHYSICS 404.	Experimental Nuclear Physics	<u>Mr. Berko</u>
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PHYSICS 405.	Theoretical Nuclear Physics	<u>Mr. Schnitzer</u>
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PHYSICS 406-408.	Experimental Elementary Particle Physics	406. <u>Mr. Chretien</u> 407. <u>Mr. Kirsch</u> 408. <u>Mr. Schmidt</u>
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PHYSICS 409-413.	Theoretical Elementary Particle Physics	409. <u>Mr. Deser</u> 410. <u>Mr. Grisaru</u> 411. <u>Mr. Pendleton</u> 412. <u>Mr. Schnitzer</u> 413. <u>Mr. Schweber</u>
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PHYSICS 414-417.	Experimental Solid State Physics	414. <u>Mr. Berko</u> 415. <u>Mr. Gornall</u> 416. <u>Mr. Heller</u> 417. <u>Mr. Mills</u>
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PHYSICS 418-420.	Theoretical Solid State Physics	418. <u>Mr. Gross</u> 419. <u>Mr. Lange</u> 420. <u>Mr. Schwartz</u>
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PHYSICS 421.	Relativity	<u>Mr. Deser</u>
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PHYSICS 422-423.	Mathematical Physics	422. <u>Mr. Grisaru</u> 423. <u>Mr. Schweber</u>
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PHYSICS 424-425.	Statistical Physics	424. <u>Mr. Cross</u> 425. <u>Mr. Pendleton</u>
PHYSICS 426-428.	Astrophysics	426. <u>Mr. Goldstein</u> 427. <u>Mr. Stein</u> 428. <u>Mr. Wardle</u>
PHYSICS 429.	Structural Biology	<u>Mr. Caspar</u>
PHYSICS 430.	Biophysics	<u>Mr. Redfield</u>

POLITICS

Faculty: Professor Roy C. Macridis, Chairman; Professors Donald Hindley, George A. Kelly, Ruth Schachter Morgenthau, I. Milton Sacks; Associate Professors Robert J. Art, Peter Woll; Assistant Professors John T. Elliff, Roy F. Grow, Mark L. Hulliung, Martin A. Levin, Peter B. Natchez, Bruce I. Oppenheimer, Steven J. Rosen, Lois A. Wasserspring.

COURSES OF INSTRUCTION

American Government

POLITICS 101aR.	Parties, Pressure Groups, and Public Opinion	<u>Mr. Natchez</u>
POLITICS 104a.	The American Voter	<u>Mr. Natchez</u>
POLITICS 107b.	The Politics of Public Policy	<u>Mr. Woll</u>
POLITICS 111a.	The American Congress	<u>Mr. Oppenheimer</u>
POLITICS 113b.	The American Presidency	<u>Mr. Oppenheimer</u>
POLITICS 115a and b.	History of American Constitutional Law and Theory	<u>Mr. Elliff</u>
POLITICS 116b.	Civil Liberties in America	<u>Mr. Elliff</u>
POLITICS 117a.	Administrative Law	<u>Mr. Woll</u>
POLITICS 121aR.	The Politics of Poverty, Class and Race in Urban Areas	<u>Mr. Levin</u>
POLITICS 123b.	The Politics of Urban Criminal Justice	<u>Mr. Levin</u>
POLITICS 124a.	Labor and Politics in the United States	<u>Mr. Sacks</u>

Emphasizing the historical approach, this course is an analytical treatment of the theory of labor participation in American politics. (Types to be specified.)

POLITICS 213bR.	Policy Formation	<u>Mr. Woll</u>
POLITICS 219a.	Policy-Making in Urban Areas	<u>Mr. Levin</u>
POLITICS 220bR.	American Political Process	<u>Mr. Natchez</u>
POLITICS 221b.	Selected Topics in American Politics	<u>Mr. Oppenheimer</u>
POLITICS 297a.	American Political and Legal Thought	<u>Mr. Roche</u>

Section I. Offered in conjunction with Politics 97a, Section I.
Enrollment limited to 25 graduate students in Politics or History.

POLITICS 297a.		<u>Mr. Rosen</u>
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Section II. Offered in conjunction with Politics 97a, Section II.

POLITICS 297a and b.	Seminar in Approaches to the History of Ideas	<u>Mr. Kelly</u>
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Section III. Offered in conjunction with Politics 97a and b, Section III.

POLITICS 297b.	Structure of American Politics in the 1970's	<u>Mr. Roche</u>
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Section I. Offered in conjunction with Politics 97b, Section I.
Enrollment limited to 25 graduate students in Politics or History.

POLITICS 297b.		<u>Mr. Hindley</u>
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Section II. Offered in conjunction with Politics 97b, Section II.

POLITICS 297b.	Seminar - Chinese Revolution	<u>Mr. Grow</u>
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Section IV. Offered in conjunction with Politics 97b, Section IV.

POLITICS 297b.	Research Seminar - Comparative Study in the Status of Women	<u>Ms. Morgenthau</u>
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Section V. Offered in conjunction with Politics 97b, Section V.

POLITICS 297b.		<u>Ms. Wasserspring</u>
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Section VI. Offered in conjunction with Politics 97b, Section VI.

See also Politics 168a and b, American Foreign Policy; Politics 125aR, Political Development in the Black Community; History 164bR, The American Polity.

Comparative Politics

POLITICS 125aR.	Political Development in the Black Community	<u>Messrs. Adam and DeBerry</u>
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See AAS 125aR.

POLITICS 130aR.	Political and Social Institutions of the Soviet Union	<u>Mr. Grow</u>
POLITICS 140a.	The Politics of Africa	<u>Ms. Morgenthau</u>
POLITICS 144a.	The Politics of Latin America: I	<u>Ms. Wasserspring</u>
POLITICS 144b.	The Politics of Latin America: II	<u>Mr. Hindley</u>
POLITICS 147a.	Chinese Government and Politics	<u>Mr. Grow</u>
POLITICS 150a.	Government and Politics: Southeast Asia	<u>Mr. Hindley</u>
POLITICS 156b.	European Political Systems	<u>Mr. Macridis</u>
POLITICS 161b.	Colonialism and Imperialism	<u>Mr. Rosen</u>
POLITICS 163bR.	The Study of Revolution: Communist Political Thought, Marx to Mao	<u>Mr. Grow</u>
POLITICS 164a.	Comparative Foreign Policy	<u>Mr. Macridis</u>
POLITICS 165b.	The Comparative Study of Fascism	<u>Ms. Wasserspring</u>
POLITICS 203a.	Approaches to the Study of Comparative Politics	<u>Ms. Wasserspring</u>
POLITICS 232b.	Politics, Development and Modernization	<u>Ms. Morgenthau</u>

International Politics

POLITICS 168a and b.	American Foreign Policy	<u>Mr. Art</u>
POLITICS 171a.	Multi-National Enterprises and National Power	<u>Ms. Morgenthau</u>
POLITICS 173b.	Modern International Politics	<u>Mr. Art</u>

This course will analyze the international relations of the great powers over the last one hundred years (1870 to the present). The purpose of the course will be to test and elucidate some of the basic hypotheses about state relations. Factors that will be emphasized include the role of military technology, milieu and possessional goals, imperialism and economic relations, nationalism and supernaturalism.

POLITICS 178aR.	International Politics in the Pacific Area	<u>Mr. Sacks</u>
POLITICS 204bR.	Approaches to International Politics	<u>Mr. Art</u>

POLITICS 205b. Functional Problems of Mr. Rosen
 International Relations

POLITICS 249a. Selected Topics in Foreign Policy Staff

See also Politics 164a, Comparative Foreign Policy; History 139a and b,
World History of the Last Century.

Political Theory and Methods

POLITICS 182b. Political Thought from Mr. Hulliung
 Machiavelli to Rousseau

POLITICS 187a. Liberalism as Political Force Mr. Kelly
 and Idea

POLITICS 193a. Theories of Political Sociology Mr. Hulliung

POLITICS 251b. Quantitative Political Analysis Mr. Natchez

This course is concerned with the application of various quantitative techniques to the study of politics. Among the methods that will be examined are: tabular and correlation analysis, multiple regression, path analysis and the Simon-Blalock technique, the Factor Model, index construction and scaling procedures, simulation, and simultaneous equation systems. The course will blend lectures and discussion with data analysis, using the PDP-10 at the Feldberg Computer Center.

POLITICS 255b. Seminar: Kant, Hegel, Marx Mr. Kelly

See Also Politics 163bR, The Study of Revolution: Communist Political Thought, Marx to Mao.

POLITICS 301-316a Readings in Politics
and b.

301. <u>Mr. Elliff</u>	309. <u>Mr. Oppenheimer</u>
302. <u>Mr. Grow</u>	310. <u>Mr. Roche</u>
303. <u>Mr. Hulliung</u>	311. <u>Mr. Rosen</u>
304. <u>Mr. Kelly</u>	312. <u>Mr. Sacks</u>
305. <u>Mr. Levin</u>	313. <u>Ms. Wasserspring</u>
306. <u>Mr. Macridis</u>	314. <u>Mr. Art</u>
307. <u>Ms. Morgenthau</u>	315. <u>Mr. Hindley</u>
308. <u>Mr. Natchez</u>	316. <u>Mr. Woll</u>

POLITICS 400-415 Dissertation Research

400. <u>Mr. Art</u>	408. <u>Mr. Roche</u>
401. <u>Mr. Natchez</u>	409. <u>Ms. Wasserspring</u>
402. <u>Mr. Hindley</u>	410. <u>Mr. Sacks</u>
403. <u>Mr. Kelly</u>	411. <u>Mr. Woll</u>
404. <u>Mr. Grow</u>	412. <u>Mr. Elliff</u>
405. <u>Mr. Levin</u>	413. <u>Mr. Hulliung</u>
406. <u>Mr. Macridis</u>	414. <u>Mr. Oppenheimer</u>
407. <u>Ms. Morgenthau</u>	415. <u>Mr. Rosen</u>

PSYCHOLOGY

Faculty: Associate Professor Maurice Hershenson, Chairman; Professors Robert W. Leeper (Visiting), Ricardo Morant (on leave, 1973-74), Marianne L. Simmel; Associate Professors David J. Schneider, Arthur Wingfield (on leave, Fall Term, 1973-74), Jerome Wodinsky; Assistant Professors Lawrence E. Arend, Jr., Hubert F. Dolezal, John R. Frederiksen, Claire Golomb, Raymond Knight, James R. Lackner, Leslie A. McArthur (on leave, 1973-74), Margaret C. Nelson, James D. Roff, Solomon Schimmel; Lecturers William E. Fitzgerald, Donald B. Giddon (Adjunct), Ina Samuels, Diane C. Skowbo (Visiting).

DEGREE REQUIREMENTS

Doctor of Philosophy

Program of Study. Although there is a two-year minimum residency requirement, four years of full-time graduate study are usually required for the Ph.D. The student is expected to carry the equivalent of twelve credit units per semester during his residency.

Research. Each student will devote one-quarter of his time to research the first semester of his entering year. For all subsequent semesters, he shall devote a minimum of one-half time to research.

Research Reports. On registration day of the third and fifth semesters of residence, each student will submit a report on his research for the preceding year, in journal form. In the event that a student's first year research report is unsatisfactory, he will be required to take a terminal master's degree completed not later than the end of his fourth semester of residence. Students who have satisfactorily completed the research requirement will be permitted to continue their work toward the doctorate, with no formal requirement of a master's degree.

Course Requirements. Entering students shall take two seminars and Psychology 210a in the first semester of residence, one seminar and Psychology 210b in the second semester. After that they shall take two seminars per semester in the second year, and one seminar each semester thereafter. Course selection will not be restricted to the Psychology Department, but will be arranged by the student in consultation with his faculty advisor. Two of the courses that the student takes during his graduate training must be outside his area of specialization.

Qualifying Examinations. In the early part of the fifth semester of residence, each student will be thoroughly examined in the historical, theoretical, and empirical literature related to his area of specialization, broadly conceived. In the event that the student fails his qualifying examination, he will be awarded a terminal master's degree on the basis of an adequate second-year research paper. A student may petition the department to take the examination a second time if necessary.

Breadth Requirement. All students graduating from the program should be qualified to teach an introductory course in Psychology covering the range of topics included in both of our own Psychology 1a and 2a courses. All students either during their first or second year in residence will be required to assist in both the 1a and 2a courses. The student assistants in the courses will be

held responsible for the contents of a reading list provided at the beginning of each course in which they assist. The reading list will be prepared by a committee of senior faculty appointed by the chairperson. The same committee will prepare a written examination, based on the reading list, that will be used to evaluate each student's performance at the end of the course.

Language Requirement. Reading proficiency in at least one foreign language is required. This language must be one in which substantial psychological literature exists. Language examinations are offered by the department four times a year, usually in September, December, February and May. Students are expected to satisfy the language requirement as soon as possible. By regulation of the Graduate School, a student who has not passed an examination in at least one foreign language by the end of his first year of study will not be eligible for financial aid from the University for the second year.

Admission to Candidacy. A student may be admitted to candidacy for the doctorate when he has fulfilled the above requirements.

Dissertation and Defense. Following the completion of all examinations, the student will prepare a prospectus of the proposed dissertation study in consultation with a faculty dissertation sponsor. The prospectus may be based on preliminary research conducted prior to the student's admission to candidacy for the doctorate. Upon approval by the faculty of the department, a dissertation committee of three or more members will be appointed by the department chairman, including the dissertation sponsor as chairman of the committee. The dissertation sponsor will be responsible for advising the student throughout the performance of his work, in consultation with the remaining members of the committee at appropriate times in the course of the work. From time to time, the committee will report the student's progress to the department faculty.

The dissertation should provide evidence of originality, scholarship and research ability. It should be a contribution to knowledge, ordinarily an experimental investigation, but not necessarily so. Upon submission to the chairman of the department of a copy of the thesis, signed by all three members of the thesis committee, and a successful defense of the thesis before all members of the department, the award of the Ph.D. degree will be recommended to the Faculty Council of the Graduate School.

COURSES OF INSTRUCTION

PSYCHOLOGY 111b.	Seminar in Socialization	<u>Mr. Schneider</u>
PSYCHOLOGY 112a.	Moral Development	<u>Mr. Schimmel</u>
PSYCHOLOGY 118a.	Physiological Psychology	<u>Ms. Samuels</u>
PSYCHOLOGY 118aR.	Physiological Psychology	<u>Ms. Nelson</u>
PSYCHOLOGY 119a.	Comparative Psychology	<u>Ms. Nelson</u>
PSYCHOLOGY 119b.	Comparative Psychology	<u>Mr. Wodinsky</u>
PSYCHOLOGY 120a. Section I	Experimental Psychology	<u>To be announced</u>
Section II		<u>To be announced</u>

PSYCHOLOGY 120aR. Section I	Experimental Psychology	<u>Mr. Wingfield</u>
Section II		<u>Ms. Nelson</u>
PSYCHOLOGY 124b.	Human Memory	<u>Mr. Wingfield</u>
PSYCHOLOGY 127a.	Temporal Patterning of Behavior	<u>Mr. Lackner</u>
PSYCHOLOGY 128a.	Sensory Processes	<u>To be announced</u>
PSYCHOLOGY 134a.	Abnormal Psychology	<u>Mr. Knight</u>
PSYCHOLOGY 134aR.	Abnormal Psychology	<u>To be announced</u>
PSYCHOLOGY 137a.	Personality	<u>To be announced</u>
PSYCHOLOGY 137aR.	Personality	<u>Mr. Leeper</u>
PSYCHOLOGY 140a.	Learning	<u>Mr. Wodinsky</u>
PSYCHOLOGY 140aR.	Learning	<u>Mr. Wodinsky</u>
PSYCHOLOGY 141a.	Biological Bases of Motivation	<u>Mr. Wodinsky</u>
PSYCHOLOGY 142b.	Psychosomatics	<u>Mr. Giddon</u>
PSYCHOLOGY 143b.	Cognitive Processes	<u>Mr. Frederiksen</u>
PSYCHOLOGY 144a.	Psychology of Language	<u>Ms. Simmel</u>
PSYCHOLOGY 145b.	Psychopathology in Childhood	<u>Ms. Golomb</u>
PSYCHOLOGY 153b.	Developmental Approaches to Cognition	<u>Mr. Schimmel</u>
PSYCHOLOGY 155b.	Advanced Educational Psychology	<u>Mr. Schimmel</u>
PSYCHOLOGY 159a.	Perception	<u>Mr. Hershenson</u>
PSYCHOLOGY 161a.	Mental Health in the U. S.	<u>Mr. Knight</u>
PSYCHOLOGY 170b.	Tests and Measurements	<u>Mr. Knight</u>
PSYCHOLOGY 171b.	Schools of Psychotherapy	<u>Mr. Knight</u>
PSYCHOLOGY 173b.	Psycholinguistics	<u>Mr. Lackner</u>
PSYCHOLOGY 177a.	Neural Basis of Behavior	<u>Ms. Nelson</u>
PSYCHOLOGY 200a and b.	Observation and Research Strategies in Psychology	<u>Staff</u>

PSYCHOLOGY 204a. Contemporary Issues in Psychology: Mr. Schneider
 Person Perception

A consideration of theoretical and conceptual issues in the study of person perception. The areas of attribution and implicit personality theory will be emphasized.

PSYCHOLOGY 207a. Perception Mr. Hershenson

PSYCHOLOGY 208b. Thinking and Problem Solving Ms. Simmel

PSYCHOLOGY 210a. Advanced Statistics To be announced

PSYCHOLOGY 210b. Advanced Statistics Mr. Frederiksen

PSYCHOLOGY 213a. Quantitative Methods for
 Personality Research Mr. Frederiksen

PSYCHOLOGY 219b. Physiological Psychology Mr. Lackner

PSYCHOLOGY 280-292a Readings in Psychological Literature
 and b.

280. Mr. Frederiksen

281. Ms. Golomb

282. Mr. Hershenson

283. Mr. Knight

284. Mr. Lackner

287. Ms. Nelson

288. Mr. Schimmel

289. Mr. Schneider

290. Ms. Simmel

291. Mr. Wingfield

292. Mr. Wodinsky

PSYCHOLOGY 300. Department Colloquium and
 Research Seminar Staff

PSYCHOLOGY 400-405 Dissertation Research

400. Mr. Morant

401. Mr. Hershenson

402. Mr. Schneider

403. Ms. Simmel

404. Mr. Wingfield

405. Mr. Wodinsky

SOCIOLOGY

Faculty: Professor Irving K. Zola, Chairman; Professors Egon Bittner, Paul Kecskemeti (Visiting), Morris S. Schwartz (on leave, 1973-74), Maurice R. Stein, Kurt H. Wolff (on leave, Fall Term, 1973-74); Associate Professors Gordon A. Fellman, Charles S. Fisher, Rosabeth Moss Kanter (on leave, 1973-74); Assistant Professors Jerome P. Boime, Charles Derber (on leave, Spring Term, 1973-74), Gila H. Hayim, Marcia Millman (Visiting), Kristine M. Rosenthal (Visiting), George W. Ross, Charlotte Weissberg; Lecturers Alvia Y. Branch, Clinton M. Jean.

DEGREE REQUIREMENTS

Changes in Requirements: Doctor of Philosophy

Program of Study. Students entering the Ph.D. program in Sociology are normally expected to take two years of course work. Of this only one course is required. All incoming students are required to take the introductory departmental Proseminar, Sociology 290a. Among the other courses students are encouraged to take are those on social theory and at least one from among the various methodologies offered. Students will make up an individual program of study in consultation with their advisors.

Credit granted for graduate work done elsewhere will not be considered until the student has successfully completed one year of residence.

After completing four full-courses or the equivalent in half-courses, passing one language examination, and having two Master's papers approved by the department, the student may be granted an M. A. degree.

COURSES OF INSTRUCTION

SOCIOLOGY 102a and b.	Social Psychiatry	<u>Mr. Stein</u>
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SOCIOLOGY 108bR.	Critiques of Contemporary Society	<u>Ms. Hayim</u>
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Analysis of major approaches in sociological and existential theory and their critical implications to modern man. Theorists like Marx, Weber, Durkheim, Freud, Ellul, Marcuse, Porter, Brown, McLuhan and others will be considered.

SOCIOLOGY 112b.	Social Stratification	<u>Mr. Fellman</u>
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SOCIOLOGY 115a and b.	Evolution of Human Social Organization	<u>Mr. Jean</u>
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SOCIOLOGY 117a.	Work and Society	<u>Mr. Bittner</u>
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A comparison of work and occupational systems in various cultures. Social organization of occupations and the place of work in the life of the individual.

SOCIOLOGY 119a and b.	Institutions for a More Humane Society	<u>Mr. Fellman</u>
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SOCIOLOGY 120a and b.	Sociology of Underdevelopment	<u>Mr. Jean</u>
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SOCIOLOGY 122a and b.	Sociology of Power	<u>Mr. Boime</u>
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The course analyzes traditional problems of politics in terms of a tension between two social forms--The Civil and the Fraternal. Discussion of modern cultural efforts to resolve this tension.

SOCIOLOGY 125a.	Methods of Sociological Research	<u>Ms. Branch</u>
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An introduction to quantitative research methodology, with emphasis on selected methods of data collection, analysis and interpretation. Includes a section in descriptive statistics.

SOCIOLOGY 130a.	The Family	<u>Ms. Rosenthal</u>
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SOCIOLOGY 132a.	Urban Sociology	<u>To be announced</u>
SOCIOLOGY 135a.	Group Process	<u>Mr. Derber</u>

Limited enrollment. Consent of instructor required.

SOCIOLOGY 141a.	Marx and Freud	<u>Messrs. Fellman and Ross</u>
SOCIOLOGY 141b.	Advanced Seminar on Marx and Freud	<u>Messrs. Fellman and Ross</u>
SOCIOLOGY 143a.	Studies in Social Interaction and the Self	<u>Mr. Derber</u>
SOCIOLOGY 145a.	Sociology of Life Styles	<u>Ms. Rosenthal</u>
SOCIOLOGY 150aR.	Sociology of Generations	<u>Ms. Rosenthal</u>
SOCIOLOGY 150b.	Sociology of Revolutionary Change	<u>Mr. Ross</u>
SOCIOLOGY 151b.	Environmental Research	<u>Ms. Weissberg</u>

This course will consist of a research project which is cooperatively conceived, designed, executed, and analyzed by the students. Class meetings will scrutinize the process of each stage of research, from the initial conception of the problem to methods employed in research design and data interpretation.

SOCIOLOGY 155b.	Social Movements	<u>Mr. Ross</u>
SOCIOLOGY 169a.		

See American Civilization 169a for description.

SOCIOLOGY 172b.

See American Civilization 172b for description.

SOCIOLOGY 188b.	Sociology of Law	<u>Mr. Bittner</u>
SOCIOLOGY 190b.	Social Organization of Medical Settings	<u>Mr. Zola</u>
SOCIOLOGY 191a.	Health, Community and Society	<u>Mr. Zola</u>
SOCIOLOGY 200a.	Classical Sociological Theory	<u>Mr. Boime</u>

This course examines the major theorists of sociological discourse (Rousseau, Marx, Durkheim and Weber) and shows how they transformed the traditional problems of human knowledge into questions of abstract social forces. Discussion on the various justifications and consequences of this change.

SOCIOLOGY 200b.	Contemporary Sociological Theory	<u>Mr. Ross and Ms. Weissberg</u>
SOCIOLOGY 203a and b.	Field Methods in Sociological Research	<u>Mr. Fisher</u>
SOCIOLOGY 207b.	The Role of Educational Institutions in American Society	<u>Ms. Rosenthal</u>
SOCIOLOGY 209a.	The American Working Class	<u>Mr. Ross</u>
SOCIOLOGY 211a.	Research on Women and Society	<u>Ms. Weissberg</u>

This seminar will provide a forum for students who are currently engaged in or interested in doing sociological research on women. Class meetings will consist of discussion and criticism of students' projects; emphasis will be placed on research design and methods, as well as on the different areas of inquiry. Consideration will also be given to creating a women's studies curriculum.

SOCIOLOGY 216b.	Seminar in Social Theory	<u>Mr. Bittner</u>
SOCIOLOGY 220b.	Seminar on the Sociology of Politics	<u>Mr. Boime</u>
SOCIOLOGY 225a.	Community Sociology	<u>Mr. Stein</u>
SOCIOLOGY 228b.	Some Pre-Theoretical Problems in Sociology	<u>Mr. Wolff</u>
SOCIOLOGY 230-250a and b.	Readings in Sociological Literature	

230.	<u>Mr. Bittner</u>	242b.	<u>Mr. Wolff</u>
231.	<u>Mr. Boime</u>	243.	<u>Mr. Zola</u>
232.	<u>Mr. Derber</u>	245.	<u>Mr. Jean</u>
233.	<u>Mr. Fellman</u>	246.	<u>Ms. Hayim</u>
234.	<u>Mr. Fisher</u>	247.	<u>Ms. Rosenthal</u>
238.	<u>Mr. Ross</u>	249.	<u>Ms. Weissberg</u>
240.	<u>Mr. Stein</u>	250.	<u>Ms. Branch</u>

SOCIOLOGY 254c.	Casting and Forecasting of Medical Roles	<u>Mr. Zola</u>
SOCIOLOGY 290c.	Pro-Seminar	<u>Mr. Ross and Staff</u>
SOCIOLOGY 300c.	Colloquium	<u>Staff</u>
SOCIOLOGY 301.	Advanced Field Research	<u>Staff</u>
SOCIOLOGY 400.	Dissertation Research Seminar	<u>Staff</u>

401. <u>Mr. Bittner</u>	412. <u>Mr. Stein</u>
402. <u>Mr. Boime</u>	414. <u>Mr. Wolff</u>
403. <u>Mr. Derber</u>	415. <u>Mr. Zola</u>
404. <u>Mr. Fellman</u>	417. <u>Mr. Jean</u>
405. <u>Mr. Fisher</u>	418. <u>Ms. Hayim</u>
408. <u>Ms. Kanter</u>	419. <u>Ms. Rosenthal</u>
410. <u>Mr. Ross</u>	420. <u>Ms. Rosenthal</u>
411. <u>Mr. Schwartz</u>	421. <u>Ms. Branch</u>

THEATER ARTS

Faculty: Associate Professor Martin Halpern, Chairman; Professors Howard Bay, Theodore L. Kazanoff (Visiting), Kevin Smith (Adjunct); Associate Professors James H. Clay (on leave, Spring Term, 1973-74), Charles W. Moore; Assistant Professors Maureen Heneghan, Donald G. Petersen (Visiting), Peter M. Sander (on leave, 1973-74), Magdaline C. Vos (on leave, 1973-74); Lecturers David S. Howard, John C. Lechner, Robert O. Moody, Jr., Anne Tolbert, Dick Goldberg (Visiting), Robert B. Palmer (Visiting), Billy Wilson (Visiting).

Staff. Walter Dolan, Barry Odom.

DEGREE REQUIREMENTS

Changes in Requirements

Dramatic Theory and Literature Requirement. Students who do not elect Theater Arts 202 in their second year are required to pass a general examination in the basic materials of dramatic theory and literature. This examination may be taken at any time during the candidate's residence, and in case of failure may be repeated once. However, if a candidate elects Theater Arts 202 and successfully completes the course, this will be considered fulfillment of the theory and literature requirement.

COURSES OF INSTRUCTION

THEATER ARTS 201.	Seminar in Dramatic Theory and Literature I	<u>Mr. Goldberg</u>
THEATER ARTS 202.	Seminar in Dramatic Theory and Literature II	<u>Mr. Halpern</u>

Acting

Required Courses - First Year

THEATER ARTS 203.	Advanced Acting Studies I	<u>Mr. Moore, 1st term</u> <u>Mr. Kazanoff, 2nd term</u>
THEATER ARTS 207.	Movement for the Actor I	<u>Mr. Howard, 1st term</u> <u>Ms. Tolbert, 2nd term</u>

THEATER ARTS 209. Voice and Speech Studies Mr. Palmer
 for the Actor I

In addition, either Theater Arts 201 or one elective each semester.

Required Courses - Second Year

THEATER ARTS 204. Advanced Acting Studies II Mr. Kazanoff, 1st term
 Mr. Moore, 2nd term

THEATER ARTS 208. Movement for the Actor II Ms. Tolbert, 1st term
 Mr. Wilson, 2nd term

THEATER ARTS 210. Voice and Speech Studies Mr. Palmer
 for the Actor II

In addition, either Theater Arts 202 or one elective each semester.

Performance and Production Requirements. Concentrators in Acting are required to audition for and perform as cast in all major productions in Theater I and II, unless excused by the Chairman after consultation with the director. They will usually perform in at least two major productions each year. They are also required to serve on the crew for one major department production each year (approximately sixty hours).

Directing-Acting

Required Courses - First Year

THEATER ARTS 213. Advanced Directing Mr. Moore

THEATER ARTS 203. Advanced Acting I Mr. Moore, 1st term
 Mr. Kazanoff, 2nd term

Either THEATER ARTS 211 and 219, or THEATER ARTS 217.

In addition, either Theater Arts 201 or one elective each semester.

Required Courses - Second Year

THEATER ARTS 204. Advanced Acting Studies II Mr. Kazanoff, 1st term
 Mr. Moore, 2nd term

Either THEATER ARTS 211 and 219, or THEATER ARTS 217.

In addition, either Theater Arts 202 or one elective each semester.

THEATER ARTS 310. Thesis Directing Project Mr. Kazanoff

See second-year performance and production requirements.

Performance and Production Requirements. First Year: Direction of two workshop productions in Theater III. Stage managing of one Theater I production. Audition for and play as cast in all major productions scheduled at times other

than those in which the directing and stage managing requirements are being met, unless excused by the Chairman after consultation with the director.

Second Year: Direction of two major productions, normally in Theater II. One of these will usually be a new play.

Design-Technical

Required Courses - First Year

THEATER ARTS 211.	Scenic Design I	<u>Mr. Bay</u>
THEATER ARTS 217.	Costume History, Design and Execution	<u>Ms. Heneghan and Mr. Odom</u>
THEATER ARTS 219.	Lighting Design I	<u>Mr. Lechner</u>
THEATER ARTS 221.	Sketching and Rendering I	<u>Mr. Moody</u>
THEATER ARTS 223.	Scenic Painting	<u>Mr. Moody</u>
THEATER ARTS 225.	Production Laboratory I	<u>Messrs. Dolan and Lechner</u>

In addition, either Theater Arts 201 or one elective each semester.

Required Courses - Second Year

THEATER ARTS 212.	Scenic Design II	<u>Mr. Bay</u>
THEATER ARTS 218.	Costume Production, Design and Execution	<u>Ms. Heneghan and Mr. Odom</u>
THEATER ARTS 220.	Lighting Design II	<u>Mr. Bay</u>
THEATER ARTS 223.	Scenic Painting	<u>Mr. Moody</u>
THEATER ARTS 224.	Stage Mechanics	<u>Mr. Dolan</u>
THEATER ARTS 226.	Production Laboratory II	<u>Messrs. Dolan and Lechner</u>
THEATER ARTS 227.	Sketching and Rendering II	<u>Mr. Moody</u>

In addition, either Theater Arts 202 or one elective each semester.

Thesis Production and Participation in Production. The graduate design thesis is the final problem in the Design-Technical program. It is the full presentation of projected designs for the scenery, costumes and lighting for a specific play or opera presented in portfolio form, with the emphasis depending on the student's major field of interest--sets, lighting, or costumes. In some cases, a student's main-stage design assignments in his second year of residence may constitute part of the thesis project.

All major projects are designed by graduate students. Therefore, a student may expect to be involved in a design capacity on at least three productions during each year. In addition, students will act as technical directors of one Theater II production each year as well as participating on various production preparatory crews as arranged in conference with the design faculty.

Dramatic Writing

Required Courses - First Year

THEATER ARTS 215.	Seminar in Dramatic Writing I	<u>Mr. Petersen</u>
THEATER ARTS 201.	Seminar in Dramatic Theory and Literature I	<u>Mr. Goldberg</u>

In addition, one elective course each semester.

Required Courses - Second Year

THEATER ARTS 216.	Seminar in Dramatic Writing II	<u>Mr. Petersen</u>
THEATER ARTS 202.	Seminar in Dramatic Theory and Literature II	<u>Mr. Halpern</u>

In addition, one elective course each semester.

THEATER ARTS 310b.	Thesis Play
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Performance and Production Requirements. Playwriting students are required to participate in the preparation of any studio, workshop, or major production of their plays mounted during the time they are in residence. They are also required to participate in two other departmental productions each year--either as performers or on production crews (approximately sixty hours per crew assignment).

OFFICERS OF INSTRUCTION

FACULTY OF ARTS AND SCIENCES

Marver H. Bernstein
Ph.D., Princeton University

President of the University

Joachim E. Gaehde
Ph.D., New York University

Dean of Faculty and Sidney and Ellen
Wien Professor in the History of Fine Arts

Jack S. Goldstein
Ph.D., Cornell University

Dean of the Graduate School, Associate
Dean of Faculty and Professor of Astro-
physics

Marguerite S. Robinson
Ph.D., Harvard University

Dean of the College, Associate Dean of
Faculty and Associate Professor of
Anthropology

* * * * *

Robert H. Abeles
Ph.D., University of Chicago

Rosenstiel Professor of Biochemistry

Robert Abramson
M.H.L., Jewish Theological
Seminary

Adjunct Lecturer in Jewish Education,
Contemporary Jewish Studies

Hussein M. Adam
M.A., Harvard University

Assistant Professor of African and Afro-
American Studies

Henry D. Aiken
Ph.D., Harvard University

Charles Goldman Professor of Philosophy
and History of Ideas

Alexander Altmann
Ph.D., University of Berlin

Philip W. Lown Professor of Jewish
Philosophy

Lawrence E. Arend, Jr.
Ph.D., Duke University

Assistant Professor of Psychology

Robert J. Art
Ph.D., Harvard University

Associate Professor of Politics

*Maurice Auslander
Ph.D., Columbia University

Sol Kittay Professor of Mathematics

Louis S. Bagger
M.F.A., Princeton University

Assistant Professor of Music

Joan Bamberger
Ph.D., Harvard University

Assistant Professor of Anthropology

Geoffrey Barraclough
Ph.D., Oriel College, Oxford,
England

Professor of History

*On Leave, 1973-74

Howard Bay	Alan King Professor of Theater Arts
George M. Beardsley Ph.D., University of North Carolina	Lecturer in Physics
Carl I. Belz Ph.D., Princeton University	Assistant Professor of Fine Arts
*Arthur Berger M.A., Harvard University	Irving Fine Professor of Music
Robert W. Berger Ph.D., Harvard University	Associate Professor of Fine Arts
Stephan Berko Ph.D., University of Virginia	Robert S. Boas Professor of Physics
David Sandler Berkowitz Ph.D., Harvard University	Professor of History
*Joseph S. Berliner Ph.D., Harvard University	Rosen Family Professor of Economics
Gerald S. Bernstein Ph.D., University of Pennsylvania	Associate Professor of Fine Arts
Rudolph Binion Ph.D., Columbia University	Leff Families Professor of Modern European History
Egon Bittner Ph.D., University of California, Los Angeles	Harry Coplan Professor in the Social Sciences
Eugene C. Black Ph.D., Harvard University	Ottillie Spring Professor of History
Willard E. Bohn Ph.D., University of California, Berkeley	Assistant Professor of French and Comparative Literature
Jerome P. Boime M.A., University of Chicago	Assistant Professor of Sociology
Ludovico Borgo Ph.D., Harvard University (on the Mr. and Mrs. Edwin Hokin Foundation)	Associate Professor of Fine Arts
David J. Boros B.A., University of California, Berkeley	Lecturer in Music

*On Leave, 1973-74

Martin Boykan M.M., Yale School of Music	Associate Professor of Music
Paul H. Brainard Ph.D., University of Gottingen	Associate Professor of Music
Alvia Y. Branch M.A., Harvard University	Lecturer in Sociology
Naftali C. Brandwein D.R.E., Jewish Theological Seminary	Rose B. and Joseph H. Cohen Professor of Modern Hebrew Literature
Robert Brannum B.S., Michigan State University	Assistant Professor of Physical Education
Leo Bronstein Ph.D., University of Paris, Sorbonne	Professor Emeritus of Fine Arts
Carlos Brossard B.A. University of Chicago	Assistant Professor of African and Afro- American Studies
*Edgar H. Brown, Jr. Ph.D., Massachusetts Institute of Technology	Jennie Sapirstein Professor of Mathematics
Paul L. Brown M.F.A., Yale School of Art and Architecture	Assistant Professor of Fine Arts
David A. Buchsbaum Ph.D., Columbia University	Professor of Mathematics
Lillian Bulwa Ph.D., Harvard University	Lecturer in French
Francois J. Buresi Agrège des Lettres Modernes, Université de Tours	Lecturer in French
Richard M. Burian Ph.D., University of Pittsburgh	Assistant Professor of Philosophy
Karl F. Canter Ph.D., Wayne State University	Instructor in Physics
James A. Carlson Ph.D., Princeton University	Visiting Assistant Professor and Research Associate in Mathematics
Anne P. Carter Ph.D., Harvard-Radcliffe University	Fred P. Pomerantz Professor of Economics

*On Leave, 1973-74

Donald L.D. Caspar Ph.D., Yale University	Professor of Physics and Rosenstiel Basic Medical Sciences Research Center
Iu-Yam Chan Ph.D., University of Chicago	Assistant Professor of Chemistry
Max Chrétien Ph.D., University of Basel	Associate Professor of Physics
*** James H. Clay Ph.D., University of Illinois	Associate Professor of Theater Arts
William J. Cloonan Ph.D., University of North Carolina	Assistant Professor of French and Comparative Literature
Helen Codere Ph.D., Columbia University	Professor of Anthropology
Carolyn Cohen Ph.D., Massachusetts Institute of Technology	Professor of Biology and Rosenstiel Basic Medical Sciences Research Center
Edward Cohen M.A., University of California, Berkeley	Assistant Professor of Music
Jacob Cohen M.A., Yale University	Assistant Professor of American Studies
Jacques Cohen Ph.D., University of Illinois	Assistant Professor of Physics
***Saul G. Cohen Ph.D., Harvard University	Charles A. Breskin Professor of Chemistry
Andree M. Collard Ph.D., Harvard University	Associate Professor Spanish
George L. Cowgill Ph.D., Harvard University	Associate Professor of Anthropology
***J.V. Cunningham Ph.D., Stanford University	Paul E. Prosswimmer Professor of English and Humanities
Margaret Dalton Ph.D., Harvard University	Assistant Professor of Russian
Robert M. Dankoff Ph.D., Harvard University	Assistant Professor of Arabic
*John Putnam Demos M.A., University of California, Berkeley	Associate Professor of History

*On Leave, 1973-74

***On Leave, Spring Term, 1973-74

John L. DeNatale

Instructor in Physical Education

***Charles Derber

Ph.D., University of Chicago

Assistant Professor of Sociology

David J. DeRosier

Ph.D., University of Chicago

Associate Professor of Physics and
Rosenstiel Basic Medical Sciences
Research Center

Stanley Deser

Ph.D., Harvard University

Professor of Physics

Peter Diamandopoulos

Ph.D., Harvard University

Professor of Philosophy and History of
Ideas

F. Trenery Dolbear, Jr.

Ph.D., Yale University
(on the Atran Foundation)

Associate Professor of Economics

Hubert F. Dolezal

M.A., State University of New York,
Albany

Visiting Assistant Professor of
Psychology

Paul B. Dorain

Ph.D., Indiana University

Professor of Chemistry

Emily P. Dudek

Ph.D., Radcliffe College

Adjunct Assistant Professor of Chemistry

James E. Duffy

Ph.D., Harvard University

Professor of Romance Literature and
History

Arthur Edelstein

A.M., Stanford University

Assistant Professor of English

David Eisenbud

M.S., University of Chicago

Assistant Professor of Mathematics

John T. Elliff

Ph.D., Harvard University

Assistant Professor of Politics

Edward Engelberg

Ph.D., University of Wisconsin

Professor of English and Comparative
Literature

*Herman T. Epstein

Ph.D., University of Michigan

Professor of Biophysics

Irving R. Epstein

Ph.D., Harvard University

Assistant Professor of Chemistry

Paul R. Evans

Ph.D., Princeton University

Visiting Professor of Music

*On Leave, 1973-74

***On Leave, Spring Term, 1973-74

Robert Evans, Jr. Ph.D., University of Chicago	Clinton S. Darling Professor of Economics
Daniel R. Farkas M.S., University of Chicago	Instructor in Mathematics
Maureen P. Fagner B.S., Northeastern University	Instructor in Physical Education
Gerald D. Fasman Ph.D., California Institute of Technology	Louis I. and Bessie Rosenfield Professor of Biochemistry
Gordon A. Fellman Ph.D., Harvard University	Associate Professor of Sociology
David Hackett Fischer Ph.D., Johns Hopkins University	Earl Warren Professor of History
Michael Fishbane Ph.D., Brandeis University	Assistant Professor of Hebrew and Biblical Studies
Charles S. Fisher Ph.D., University of California, Berkeley	Associate Professor of Sociology
Philip Fisher Ph.D., Harvard University	Assistant Professor of English
William E. FitzGerald Ph.D., Harvard University	Lecturer in Clinical Psychology
Gerdes Fleurant A.M., Northeastern University	Instructor in African and Afro-American Studies
Robert J. Forbes M.A., Harvard University	Lecturer in Spanish
Susan Forbes Ph.D., University of Pennsylvania	Assistant Professor of American Studies
Bruce M. Foxman Ph.D., Massachusetts Institute of Technology	Assistant Professor of Chemistry
Alan B. Francis M.A., Harvard University	Lecturer in Spanish
John R. Frederiksen Ph.D., Princeton University	Assistant Professor of Psychology
Gregory L. Freeze M.A., Columbia University	Assistant Professor of History

*David M. Freifelder Ph.D., University of Chicago	Professor of Biochemistry
Eberhard Frey Ph.D., Cornell University	Assistant Professor of German
*Lawrence H. Fuchs Ph.D., Harvard University	Meyer and Walter Jaffe Professor of American Studies
Chandler M. Fulton Ph.D., Rockefeller Institute	Associate Professor of Biology
Stephen J. Gendzier Ph.D., Columbia University	Associate Professor of French
Martin Gibbs Ph.D., University of Illinois	Professor of Biology
Donald B. Giddon Ph.D., Brandeis University	Adjunct Lecturer in Psychology
Nahum Norbert Glatzer Ph.D., University of Frankfurt	Professor Emeritus of Jewish History and Social Ethics
Ariella D. Goldberg Ph.D., Brandeis University	Assistant Professor of Hebrew
Dick Goldberg M.F.A., Brandeis University	Visiting Lecturer in Theater Arts
Sidney Golden Ph.D., Harvard University	Henry F. Fischbach Professor of Chemistry
Arthur L. Goldhammer B.S., Massachusetts Institute of Technology	Instructor in Mathematics
Maynard Goldman B.Mus., Boston University	Consultant in Music
Emanuel S. Goldsmith Ph.D., Brandeis University (on the Jacob D. Berg Foundation)	Assistant Professor of Yiddish Language and Literature
William M. Goldsmith Ph.D., Columbia University	Assistant Professor of American Studies
Fred Goldstein B.A., Queens College	Consultant in Music
Claire Golomb Ph.D., Brandeis University	Assistant Professor of Psychology

*On Leave, 1973-74

Cyrus H. Gordon Ph.D., University of Pennsylvania	Professor Emeritus of Mediterranean Studies
William S. Gornall Ph.D., University of Toronto	Assistant Professor of Physics
James R. Green Ph.D., Yale University	Assistant Professor of History
***Robert S. Greenberg Ph.D., University of Chicago	Associate Professor of Philosophy
Peter Grippe	Lester and Joan Avnet Professor of Sculpture
Marcus T. Grisaru Ph.D., Princeton University	Associate Professor of Physics
Eugene P. Gross Ph.D., Princeton University	Sol Kittay Professor of Physics
Allen R. Grossman Ph.D., Brandeis University	Associate Professor of English
Lawrence Grossman Ph.D., University of Southern California (Career Award, National Institutes of Health)	Professor of Biochemistry
Roy F. Grow Ph.D., University of Michigan	Assistant Professor of Politics
Ernest Grunwald Ph.D., University of California, Los Angeles	Professor of Chemistry
James E. Haber Ph.D., University of California, Berkeley	Assistant Professor of Biology and Rosenstiel Basic Medical Sciences Research Center
Jeffrey C. Hall Ph.D., University of Washington	Assistant Professor of Biology
***Benjamin Halpern Ph.D., Harvard University	Richard Koret Professor of Near Eastern Studies
Martin Halpern Ph.D., Harvard University	Associate Professor of Theater Arts
Harlyn O. Halvorson Ph.D., University of Illinois	Professor of Biology and Director, Rosenstiel Basic Medical Sciences Research Center
Eugenia Hanfmann Ph.D., University of Jena	Professor Emeritus of Psychology
***On Leave, Spring Term, 1973-74	

David A. Hanson A.B., Harvard University	Assistant Professor of Russian
***Victor Harris Ph.D., University of Chicago	Edytha Macy Gross Professor of Humanities
Erica Harth Ph.D., Columbia University	Assistant Professor of French and Comparative Literature
Gila Hayim Ph.D., University of Pennsylvania	Assistant Professor of Sociology
Elie Hayon Ph.D., King's College, Durham University	Adjunct Associate Professor of Chemistry
Peter Heller Ph.D., Harvard University	Associate Professor of Physics
***Michael J. Henchman Ph.D., Yale University	Associate Professor of Chemistry
James B. Hendrickson Ph.D., Harvard University	Professor of Chemistry
Maureen Heneghan	Assistant Professor of Costume Design
Maurice Hershenson Ph.D., Yale University	Associate Professor of Psychology
William E. Higgins Ph.D., Harvard University	Assistant Professor of Classics
Donald Hindley Ph.D., Australian National University	Professor of Politics
Milton Hindus M.S., City College of New York	Professor of English
Thomas C. Hollocher, Jr. Ph.D., University of Rochester	Associate Professor of Biochemistry
Jen-Shiang Hong Ph.D., University of California, Berkeley	Assistant Professor of Biochemistry
Benjamin B. Hoover Ph.D., University of California, Berkeley	Professor of English
David A. Horr Ph.D., Harvard University	Assistant Professor of Anthropology
***On Leave, Spring Term, 1973-74	

Judith A. Houde M.S.Ed., University of Tennessee	Instructor in Physical Education
David S. Howard M.F.A., Brandeis University	Lecturer in Theater Arts
Everett C. Hughes Ph.D., University of Chicago	Professor Emeritus of Sociology
Mark L. Hulliung Ph.D., Harvard University	Assistant Professor of Politics
Robert C. Hunt Ph.D., Northwestern University	Associate Professor of Anthropology
Clarence Hunter M.A., Columbia University	Adjunct Lecturer in African and Afro-American Studies
Judith T. Irvine B.A., Radcliffe College, Harvard University	Assistant Professor of Anthropology
Gerald N. Izenberg Ph.D., Harvard University	Assistant Professor of History of Ideas
Ray S. Jackendoff Ph.D., Massachusetts Institute of Technology	Associate Professor of Linguistics
David Jacobson Ph.D., University of Rochester	Assistant Professor of Anthropology
Clinton M. Jean M.A., Columbia University	Lecturer in Sociology
*William P. Jencks M.D., Harvard University	Rosenstiel Professor of Biochemistry
*Leon A. Jick Ph.D., Columbia University (on the Helen and Irving Schneider Foundation)	Associate Professor of American Jewish Studies
William A. Johnson Ph.D., Columbia University	Albert V. Danielsen Professor of Christian Thought
Peter C. Jordan Ph.D., Yale University	Associate Professor of Chemistry
Lisel K. Judge M.Ed., Northeastern University	Associate Professor of Physical Education
*On Leave, 1973-74	

Jonathan P. Kabat
Ph.D., Massachusetts Institute
of Technology

*Rosabeth Moss Kanter
Ph.D., University of Michigan

David Kaplan
Ph.D., University of Michigan

Theodore L. Kazanoff
M.A., Smith College

Paul Kecskemeti
Ph.D., University of Budapest

Philip M. Keehn
Ph.D., Yale University

Morton Keller
Ph.D., Harvard University

George A. Kelly
Ph.D., Harvard University

Albert Kelner
Ph.D., University of Pennsylvania

Galway Kinnell
M.A., University of Rochester

Lawrence E. Kirsch
Ph.D., Rutgers University

Attila O. Klein
Ph.D., Indiana University

***Karen Wilk Klein
Ph.D., Columbia University

Raymond Knight
Ph.D., University of Minnesota

Robert Lincoln Koff
B. Mus., Oberlin College

Edward J. Kopf
M.A., Brandeis University

Kenneth Kustin
Ph.D., University of Minnesota

*On Leave, 1973-74

***On Leave, Spring Term, 1973-74

Adjunct Assistant Professor of Biology

Associate Professor of Sociology

Professor of Anthropology

George and Esther Sagan Visiting Professor
of Theater Arts

Visiting Professor of Sociology

Assistant Professor of Chemistry

Samuel J. and Augusta Spector Professor
of History

Professor of Politics

Abraham S. and Gertrude Burg Professor of
Microbiology

Fannie Hurst Visiting Professor of Poetry

Associate Professor of Physics and
Director of Feldberg Computer Center

Associate Professor of Biology

Assistant Professor of English

Assistant Professor of Psychology

Professor of Music and Artist-in-Residence

Instructor in History

Professor of Chemistry

Igal Kwart M.A., University of Pittsburgh	Lecturer in Philosophy
Ernest R. Lacheman Ph.D., Harvard University	Visiting Professor of Cuneiform Studies
James R. Lackner Ph.D., Massachusetts Institute of Technology	Assistant Professor of Psychology
Angeliki E. Laiou Ph.D., Harvard University	Associate Professor of History
Timothy L. Lance M.A., Boston College	Lecturer in Mathematics
Robert V. Lange Ph.D., Harvard University	Associate Professor of Physics
Richard H. Lansing Ph.D., University of California, Berkeley	Assistant Professor of Italian and Comparative Literature
Robert J. Lerner Ph.D., University of Wisconsin	Assistant Professor of Economics
Hubert P. LeBlanc, Jr. A.B., Brandeis University	Assistant Professor of Physical Education
John C. Lechner M.A., California State University	Lecturer in Theater Arts
Robert W. Leeper Ph.D., Clark University (University of Oregon - Professor Emeritus)	Jacob Ziskind Visiting Professor of Psychology
*Louis Lefebvre Ph.D., Massachusetts Institute of Technology	Fred C. Hecht Professor of International Economics
***Alan Lelchuk Ph.D., Stanford University	Assistant Professor of English
Max Lerner Ph.D., Robert Brookings Graduate School	Professor Emeritus of American Civil- ization and Institutions
Martin A. Levin Ph.D., Harvard University	Assistant Professor of Politics
*On Leave, 1973-74	
***On Leave, Spring Term, 1973-74	

Harold I. Levine Ph.D., University of Chicago	Professor of Mathematics
Jerome P. Levine Ph.D., Princeton University	Professor of Mathematics
Lawrence Levine Sc.D., Johns Hopkins University (American Cancer Society Professorship)	Professor of Biochemistry
Norman E. Levine B.S., Bates College	Assistant Professor of Physical Education
Alan L. Levitan Ph.D., Princeton University	Associate Professor of English
**Denah L. Lida Ph.D., University of Mexico	Professor of Spanish
**David I. Lieberman Ph.D., Massachusetts Institute of Technology	Associate Professor of Mathematics
Henry Linschitz Ph.D., Duke University	Helena Rubinstein Professor of Chemistry
Edgar Lipworth Ph.D., Columbia University	Professor of Physics
**Elaine P. Loeffler B.A., Smith College	Associate Professor of Fine Arts
John M. Lowenstein Ph.D., London University	Professor of Biochemistry
Susan Lowey Ph.D., Yale University	Associate Professor of Biochemistry and Rosenstiel Basic Medical Sciences Research Center
Roy C. Macridis Ph.D., Harvard University	Lawrence A. Wien Professor of International Cooperation
Robert J. Maeda Ph.D., Harvard University	Assistant Professor of Fine Arts
Joan M. Maling Ph.D., Massachusetts Institute of Technology	Assistant Professor of Linguistics

**On Leave, Fall Term, 1973-74

Robert A. Manners Ph.D., Columbia University	Professor of Anthropology
Bernard A. Marshall Ph.D., University of West Indies	Assistant Professor of African and Afro-American Studies
Teruhisa Matsusaka D.Sc., Kyoto University	Irving Schneider Professor of Mathematics
John F. Matthews A.B., University of Cincinnati	Professor of American Studies
*Alan L. Mayer Ph.D., Princeton University	Professor of Mathematics
Michael B. Mazur M.F.A., Yale University	Artist-in-Residence, Department of Fine Arts
*Leslie Ann McArthur Ph.D., Yale University	Assistant Professor of Psychology
***Marvin Meyers Ph.D., Columbia University	Harry S. Truman Professor of American Civilization
Marcia Millman Ph.D., Brandeis University	Visiting Assistant Professor of Sociology
Allen P. Mills, Jr. Ph.D., Brandeis University	Assistant Professor of Physics
Paul Monaco M.A., University of North Carolina	Instructor in History
Paul H. Monsky Ph.D., University of Chicago	Professor of Mathematics
Robert O. Moody, Jr.	Lecturer in Theater Arts
Charles W. Moore M.F.A., Yale University	Associate Professor of Theater Arts
*Ricardo B. Morant Ph.D., Clark University	Minnie and Harold L. Fierman Professor of Psychology
Ruth Schachter Morgenthau Ph.D., Oxford University, England	Adlai E. Stevenson Professor of International Politics
E. Craig Morris Ph.D., University of Chicago	Assistant Professor of Anthropology
*On Leave, 1973-74	
***On Leave, Spring Term, 1973-74	

Leonard C. Muellner Ph.D., Harvard University	Assistant Professor of Classics
William T. Murakami Ph.D., University of Southern California	Associate Professor of Biochemistry
**Pauli Murray J.S.D., Yale Law School	Louis Stulberg Professor of American Studies
Marcos G. Namashulua M.A., Fordham University	Instructor in African and Afro-American Studies
Peter B. Natchez Ph.D., Harvard University	Assistant Professor of Politics
Margaret C. Nelson Ph.D., University of Pennsylvania	Assistant Professor of Psychology
Marion Nestle Ph.D., University of California, Berkeley	Lecturer in Biology
Gordon D. Newby Ph.D., Brandeis University	Lecturer in Mediterranean Studies
John D. Niles Ph.D., University of California, Berkeley	Assistant Professor of English
Thomas P. O'Connell C.A.G.S., Boston University	Instructor in Physical Education
James D. Olesen B.A., University of Chicago	Lecturer in Music
Gjerding Olsen Ph.D., Harvard University	Associate Professor of Biology
**Richard J. Onorato Ph.D., Harvard University	Associate Professor of English
Bruce I. Oppenheimer Ph.D., University of Wisconsin	Assistant Professor of Politics
Richard S. Palais Ph.D., Harvard University	Professor of Mathematics
Robert B. Palmer M.F.A., Brandeis University	Visiting Lecturer in Theater Arts
Stavros G. Papastavridis M.A., Princeton University	Assistant Professor of Mathematics
**On Leave, Fall Term, 1973-74	

Ronald J. Parry Ph.D., Brandeis University	Assistant Professor of Chemistry
Marden D. Paru M.A., University of Chicago	Instructor in Contemporary Jewish Studies
Hugh N. Pendleton III Ph.D., Carnegie Institute of Technology	Associate Professor of Physics
*Frances S. Perkins M.Ed., Tufts University	Lecturer in Psychology
Donald G. Petersen B.F.A., University of New Mexico	Visiting Assistant Professor in Playwriting
Peter A. Petri A.B., Harvard University	Assistant Professor of Economics
Arnold K. Pizer Ph.D., Yale University	Visiting Assistant Professor and Research Associate in Mathematics
Mordeca J. Pollock Ph.D., Harvard University	Assistant Professor of French
*Robert O. Preyer Ph.D., Columbia University	Professor of English
*Philip Rahv	David Schwartz Professor of English
Alan T. Ramsey Ph.D., University of Wisconsin	Visiting Assistant Professor of Physics
Benjamin C.I. Ravid Ph.D., Harvard University	Assistant Professor of Jewish History
Esther E. Rawidowicz Ph.D., University of Berlin	Assistant Professor Emerita of German
Alfred G. Redfield Ph.D., University of Illinois	Professor of Physics and Biochemistry and Rosenstiel Basic Medical Sciences Research Center
Bernard Reisman Ph.D., Brandeis University	Assistant Professor of American Jewish Communal Studies
*Joshua Rifkin M.F.A., Princeton University	Assistant Professor of Music
John A. Rinka B.A., Kenyon College	Lecturer in Physical Education
*On Leave, 1973-74	

Nicholas Rodis Ed.M., American International College	Professor of Physical Education
James D. Roff Ph.D., University of Minnesota	Assistant Professor of Psychology
*Michael Rosbash Ph.D., Massachusetts Institute of Technology	Assistant Professor of Biology and Rosenstiel Basic Medical Sciences Research Center
David Rosen M.A., University of California, Berkeley	Assistant Professor of Music
Steven J. Rosen Ph.D., Syracuse University	Assistant Professor of Politics
Myron Rosenblum Ph.D., Harvard University	Professor of Chemistry
Gerald Rosenthal Ph.D., Harvard University	Associate Professor of Economics
Kristine M. Rosenthal Ed.D., Harvard University	Visiting Assistant Professor of Sociology
George W. Ross M.Sc., London School of Economics	Assistant Professor of Sociology
Hugo Rossi Ph.D., Massachusetts Institute of Technology	Professor of Mathematics
Joshua Rothenberg M.A., Rutgers University	Lecturer in Yiddish Literature
***Murray Sachs Ph.D., Columbia University	Professor of French
I. Milton Sacks Ph.D., Yale University	Morris Hillquit Professor of Labor and Social Thought
Benson Saler Ph.D., University of Pennsylvania	Associate Professor of Anthropology
Ina Samuels Ph.D., University of Michigan	Visiting Lecturer in Psychology
*On Leave, 1973-74	
***On Leave, Spring Term, 1973-74	

*Peter M. Sander M.F.A., Carnegie Institute of Technology	Assistant Professor of Theater Arts
Nahum M. Sarna Ph.D., Dropsie College	Dora Golding Professor of Biblical Studies
Jerome A. Schiff Ph.D., University of Pennsylvania	Professor of Biology
Solomon Schimmel Ph.D., Wayne State University	Assistant Professor of Psychology
Robert F. Schleif Ph.D., University of California, Berkeley	Assistant Professor of Biochemistry
Peter E. Schmidt Ph.D., Columbia University	Assistant Professor of Physics
David J. Schneider Ph.D., Stanford University	Associate Professor of Psychology
Howard J. Schnitzer Ph.D., University of Rochester	Professor of Physics
John E. Schrecker Ph.D., Harvard University	Associate Professor of History
*Allen C. Schultz B.A., Howard University	Assistant Professor of African and Afro-American Studies
Barney K. Schwalberg Ph.D., Harvard University (on the Jacob Hiatt Foundation)	Associate Professor of Economics
Lawrence M. Schwartz Ph.D., Harvard University	Assistant Professor of Physics
*Morris S. Schwartz Ph.D., University of Chicago	Mortimer Gryzmish Professor of Human Relations
Silvan S. Schweber Ph.D., Princeton University	Professor of Physics
*Robert T. Seeley Ph.D., Massachusetts Institute of Technology	Professor of Mathematics
Charles P. Segal Ph.D., Harvard University	Visiting Professor of Classics
*On Leave, 1973-74	

David Segal
M.A., Harvard University

Harold S. Shapero
A.B., Harvard University

Mehrdad M. Shahshahani
Ph.D., University of California,
Berkeley

Seymour J. Shifrin
M.A., Columbia University

Alexander Silbiger
Ph.D., Columbia University

Marianne L. Simmel
Ph.D., Harvard University

***Mitchell Siporin

Marshall Sklare
Ph.D., Columbia University

Diane C. Skowbo
M.A., Brandeis University

Mary L. Small
M.S., Syracuse University

John H. Smith
Ph.D., University of Illinois

Kevin H. Smith
A.B., University of Washington

*Gerald L. Soliday
Ph.D., Harvard University

Frederic T. Sommers
Ph.D., Columbia University

Morris Soodak
Ph.D., Fordham University

Lee Stavenhagen
Ph.D., University of California,
Berkeley

S. Susan Staves
Ph.D., University of Virginia

Colin Steel
Ph.D., Edinburgh University

Instructor in Hebrew and Medieval
Jewish Studies

Walter W. Naumburg Professor of Music

Assistant Professor of Mathematics

Professor of Music

Lecturer in Music

Professor of Psychology

Charles Bloom Professor in Arts of Design

Nathan Appleman Professor of American
Jewish Studies and Sociology

Lecturer in Psychology

Assistant Professor of African and
Afro-American Studies

Professor of English

Adjunct Professor of Theater Arts

Assistant Professor of History

Harry A. Wolfson Professor of Philosophy

Associate Professor of Biochemistry

Assistant Professor of German

Assistant Professor of English

Associate Professor of Chemistry

*On Leave, 1973-74

***On Leave, Spring Term, 1973-74

Maurice R. Stein Ph.D., Columbia University	Jacob S. Potofsky Professor of Sociology
*Robert F. Stein Ph.D., Columbia University	Assistant Professor of Astrophysics
David Joel Steinberg Ph.D., Harvard University	Adjunct Professor of History
Raymond E. Stephens Ph.D., Dartmouth College	Associate Professor of Biology
Robert Stevenson D.Sc., Glasgow University	Professor of Chemistry
Dan J. Stewart Ph.D., University of California, Berkeley	Assistant Professor of Biology
Douglas J. Stewart Ph.D., Cornell University	Associate Professor of Classics
Ernest Stock Ph.D., Columbia University	Lecturer in Politics
William C. Swan M.A., Tufts University	Instructor in African and Afro- American Studies
Peter Swiggart Ph.D., Yale University	Associate Professor of English
Marie Syrkin M.A., Cornell University	Professor Emerita of Humanities
Zosa Szajkowski	Lecturer in Near Eastern and Judaic Studies
Andrew G. Szent-Gyorgyi M.D., University of Budapest	Professor of Biology
Robert Szulkin Ph.D., Harvard University	Associate Professor of Russian
Serge N. Timasheff Ph.D., Fordham University	Professor of Biochemistry
Caldwell Titcomb Ph.D., Harvard University	Associate Professor of Music
Ian A. Todd Ph.D., University of Birmingham, England	Assistant Professor of Mediterranean Studies

*On Leave, 1973-74

Anne Tolbert B.A., City College of New York	Lecturer in Theater Arts (Dance)
Anthony Toney Ed. D., Columbia University	Artist-in-Residence, Department of Fine Arts
*Leo Treitler Ph.D., Princeton University	Professor of Music
Thomas R. Tuttle, Jr. Ph.D., Washington University	Associate Professor of Chemistry
Milton I. Vanger Ph.D., Harvard University	Associate Professor of History
***John van Heijenoort Ph.D., New York University	Professor of Philosophy
Helen Van Vunakis Ph.D., Columbia University (on a Research Career Award, National Institutes of Health)	Professor of Biochemistry
Peter Varkonyi Ph.D., University of California Santa Barbara	Assistant Professor of French Language and Literature
*Magdaline C. Vos B.S., Kent State University	Assistant Professor of Voice and Speech, Theater Arts
Saul P. Wachs Ph.D., Ohio State University	Assistant Professor and Director of Jewish Education
Ernest Wamba M.B.A., Claremont Graduate School	Lecturer in African and Afro-American Studies
Aileen Ward Ph.D., Radcliffe College	Professor of English
John F.C. Wardle Ph.D., University of Manchester, England	Assistant Professor of Astrophysics
Charles K. Warner Ph.D., Columbia University	Visiting Professor of History
Lois Ann Wasserspring M.A., Princeton University	Assistant Professor of Politics
Richard S. Weckstein Ph.D., Yale University	Carl Marks Professor of Economics
*On Leave, 1973-74	
***On Leave, Spring Term, 1973-74	

Alex Weingrod Ph.D., University of Chicago	Professor of Anthropology
Charlotte Weissberg M.A., University of Chicago	Assistant Professor of Sociology
*Morris Weitz Ph.D., University of Michigan	Richard Koret Professor of Philosophy
Hermann F. Wellenstein Ph.D., University of Texas	Assistant Professor of Physics
*Pieter C. Wensink Ph.D., Johns Hopkins University	Assistant Professor of Biochemistry and Rosenstiel Basic Medical Sciences Research Center
Michael Wentworth M.F.A., Harvard University	Assistant Professor and Director of Rose Art Museum
Stephen J. Whitfield Ph.D., Brandeis University	Assistant Professor of American Studies
Brenda Ann Wiechmann M.Ed., South Dakota State University	Lecturer in Women's Physical Education
***David S. Wiesen Ph.D., Harvard University	Samuel Lemberg Professor of Classics
John Williams Ph.D., University of Missouri (University of Denver)	Fannie Hurst Visiting Professor of Creative Literature
Thompson Williams, Jr. M.S.W., Wayne State University	Adjunct Lecturer in African and Afro- American Studies
Billy Wilson	Visiting Lecturer in Theater Arts (Dance)
Leslie C. Wilson M.S., University of Illinois	Instructor in Mathematics
**Arthur Wingfield Ph.D., Oxford University	Associate Professor of Psychology
Peter Witt Ed. D., Harvard University	Lecturer in American Studies and Director of Education Program
Jerome Wodinsky Ph.D., University of Texas	Associate Professor of Psychology
*Kurt H. Wolff Ph.D., University of Florence	Manuel Yellen Professor of Social Relations
*On Leave, 1973-74	
**On Leave, Fall Term, 1973-74	
***On Leave, Spring Term, 1973-74	

Peter Woll
Ph.D., Cornell University

Associate Professor of Politics

Bun Wong
Ph.D., Princeton University

Instructor in Mathematics

Donald E. Worster
Ph.D., Yale University

Assistant Professor of American Studies

Luis E. Yglesias
Ph.D., Harvard University

Associate Professor of Spanish

***Dwight W. Young
Ph.D., Dropsie College

Professor of Ancient Near Eastern Civil-
ization

^v
Louis V. Zabkar
Ph.D., University of Chicago

Professor of Mediterranean Studies

Harry Zohn
Ph.D., Harvard University

Professor of German

Irving K. Zola
Ph.D., Harvard University

Professor of Sociology

***On Leave, Spring Term, 1973-74

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FLORENCE HELLER GRADUATE SCHOOL FOR ADVANCED STUDIES IN SOCIAL WELFARE

Full Time

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Francis G. Caro Ph.D., University of Minnesota	Associate Professor of Social Research
*Dennis Derryck Ph.D., Fordham University	Assistant Professor of Manpower Planning
Gunnar Dybwad J.D., University of Halle, Germany	Professor of Human Development
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Leonard J. Hausman Ph.D., University of Wisconsin	Assistant Professor of Social Research
Robert Hudson Ph.D., University of North Carolina	Assistant Professor of Politics and Social Welfare
*On Leave, 1973-74	
***On Leave, Spring Term, 1973-74	

Kenneth J. Jones Ed.D., Harvard University	Professor of Social Research
***Wyatt C. Jones Ph.D., New York University	Professor of Social Research
Lorraine V. Klerman D.P.H., Harvard University School of Public Health	Associate Professor of Public Health
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Part Time and Adjunct Faculty	
Henry S.G. Cutter Ph.D., Boston University	Visiting Professor
Charles Gershenson Ph.D., Columbia University	Visiting Professor of Child Development
David J. Myerson M.D., Tufts University Medical School; Superintendent, Worcester State Hospital	Visiting Lecturer
***On Leave, Spring Term, 1973-74	

J. Edward L. Prunier M.D., Georgetown University School of Medicine; Director, Psychiatric Residency Training Program, Director of Psychiatry, Worcester State Hospital	Visiting Lecturer
*Gerald Rosenthal Ph.D., Harvard University	Associate Professor of Economics
John F. Scott Ph.D., Brandeis University,	Associate Professor of Social Research
Malcolm R. Sills M.D., Middlesex University Medical School; Regional Mental Health Administrator, Massachusetts Department of Mental Health	Visiting Lecturer
John P. Spiegel M.D., Northwestern University, Graduate, Chicago Institute for Psychoanalysis	Professor of Social Psychiatry and Director, Lemberg Center for the Study of Violence
Howard Lee Wylie M.D., University of Chicago School of Medicine; Assistant Director, Worcester Youth Guidance Center	Visiting Lecturer

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